



Daily Monthly Report Software EcoMeasure III

Model

MES3-SW1-DR-EN

User manual (Detailed version)

- Make sure to read this user manual before using the product.
- Please ensure that this manual is delivered to the end user of the product.

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CHAPTER 1 INTRODUCTION

Thank you very much for purchasing this Daily Monthly Report Software (EcoMeasure III).

This user manual explains the setting procedure and usage which are necessary to operate the Daily Monthly Report Software (hereinafter abbreviated as “this software”) for EcoWebServer III (hereinafter abbreviated as “subsystems”).

This user manual explains the operation with the assumption that the user of this software is familiar with the basic operations of Windows.

Please refer to the manual or other documents of the used operating system if in doubt about the basic operations of Windows.

1.1 Features

This software is the exclusive software for creating the report easily from the logging file (in CSV file format) that is collected and stored by the subsystem.

This software has the following features.

(1) Simple operation

By adopting the standard Windows interface, the software can be operated simply using a mouse.

(2) Simple setting

Only the simple system settings are necessary to calculate the specific consumption, and create the report.

(3) Manual entry of the data

Using the virtual measuring point for entry, you can manually enter the daily (on an hourly basis) or monthly (on a daily basis) production quantity.

It is also possible to create the report.

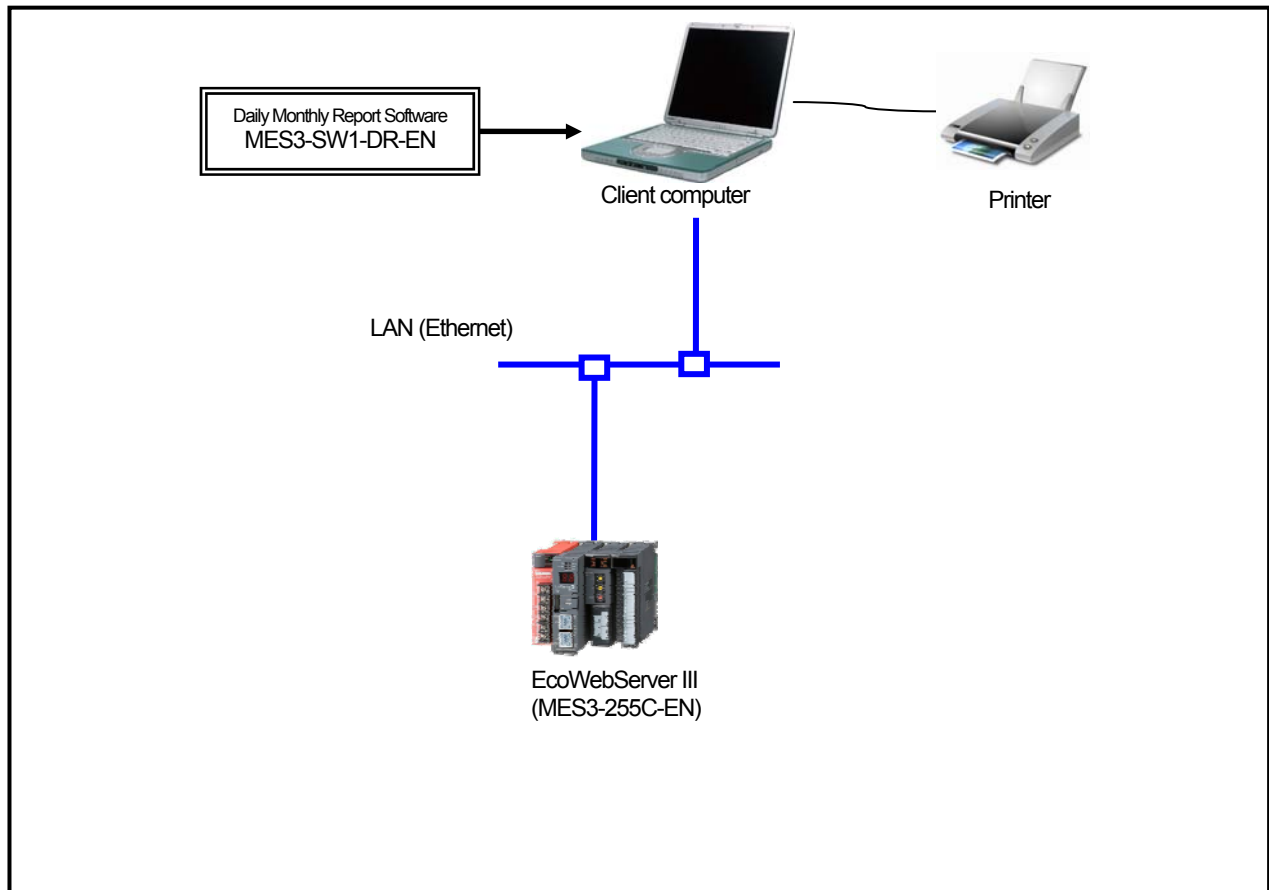
(4) Creation of daily, monthly, and annual reports

It is possible to create the daily report, monthly report, and annual report based on the various measured data.

1.2 Configuration and overview of functions

1.2.1 System configuration

The following shows an example of the system configuration of this software.



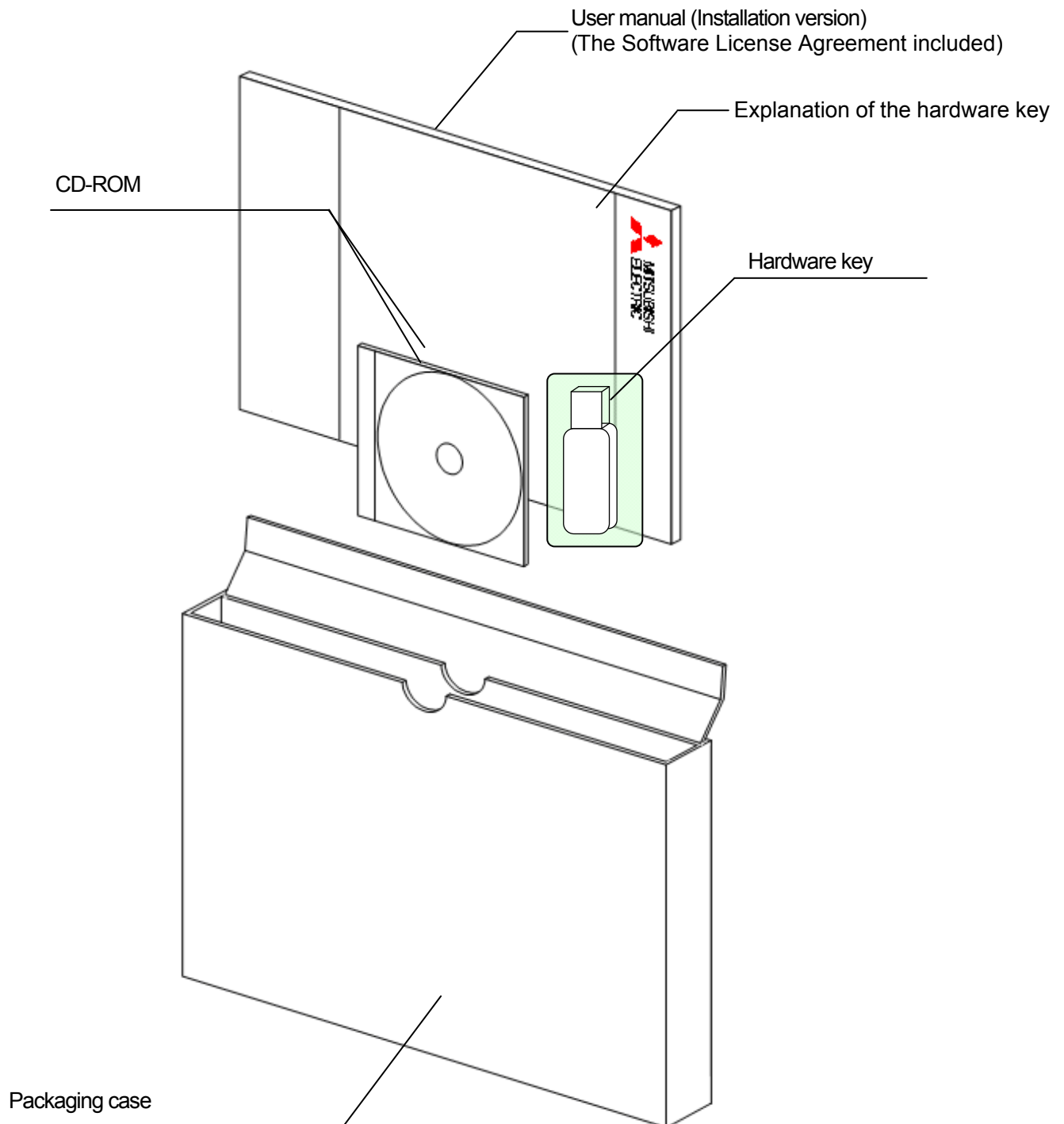
- * Devices other than this software are sold separately and should be prepared by the customer.
- * Refer to the user manual supplied with the subsystem for the usage of each subsystem or the connection method of the subsystem to the computer.
- * It is possible to use up to 2 subsystems with a computer connected on the same LAN.

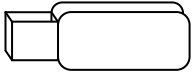
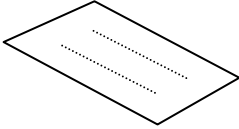
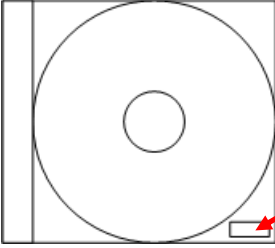
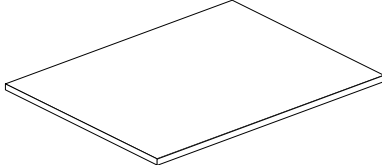
1.2.2 Overview of functions

Function	Details	Notes
Setup function	<ul style="list-style-type: none"> ● Subsystem setting This item sets the project name, IP address, and measuring point information of the subsystem. ● Virtual measuring point setting This item sets the virtual measuring point (virtual measuring point group) information used in the report and the specific consumption setting. There are two types of the virtual measuring point: calculation and entry. ● Specific consumption setting This item sets the specific consumption information used in the report. ● Report setting This item sets the measuring point to be output in the report. ● System setting This item sets the usage environment of this software. 	See Chapter 4
Collection function	<ul style="list-style-type: none"> ● Data collection Logging file is collected from the subsystem via the LAN. The collected logging file is stored in the logging file storage location path specified for each subsystem. 	See Chapter 5
Entry function	<ul style="list-style-type: none"> ● Data entry This item inputs the daily or monthly data of the registered virtual measuring point. 	See Chapter 6
Creation function	<ul style="list-style-type: none"> ● Creation of the report This item creates the daily, monthly, and annual reports. 	See Chapter 7

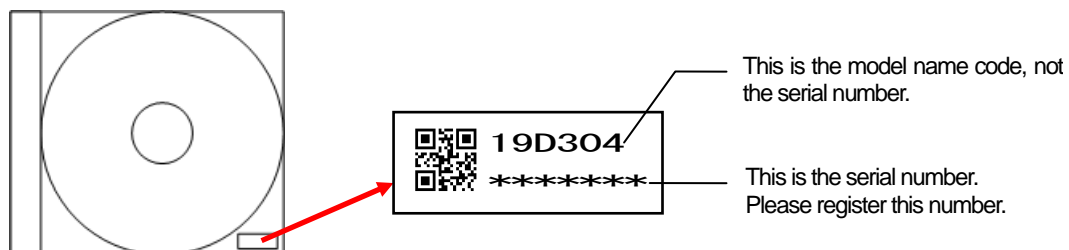
1.3 Package contents

This software is packed as shown below.
After unpacking the software, check the contents.



Name	Quantity	Appearance	Notes
Hardware key	1		Necessary when using the software.
Explanation of the hardware key	1		The manual explaining the handling of the hardware key.
CD-ROM	1		The installation program of the Daily Monthly Report Software, the device driver of the hardware key, and the user manual are stored. The sticker showing the serial number is attached on the CD case.*
User manual (Installation version) English	1		The user manual explaining the installation procedure of this software. Refer to the User manual (Detailed version) contained in the CD-ROM for details of the procedures of operation and setting.
User manual (Installation version) Simplified Chinese	1		

- * The serial number is necessary when performing the user registration on the Internet. Please check the sticker on the CD case.



Cautions

- This software can be installed only on one computer.
- Unpack the software and check that all the contents described above are supplied. If there are any problems such as missing items, erratic pagination, and missing pages, please contact your nearest branch office or sales office.

1.4 Specifications

Item				Details	
Setup function	Subsystem setting			Registration of the subsystem to be used (up to 2)	
	Virtual measuring point setting			Registration of the virtual measuring point (virtual measuring point group) to be used in the report and specific consumption setting	
		Number of registration points		Up to 100 points Virtual measuring point : Up to 95 points (Total number of points of all manual entry and calculation of measuring point)	
		Virtual measuring point		Virtual measuring point group : Up to 5 groups	
		Virtual measuring point group		Four arithmetic operations of up to 64 measuring points are set as the virtual measuring point.	
		Virtual measuring point group		Adds-subtracts of up to 32 virtual measuring points is set as the virtual measuring point group. (Virtual measuring point for calculation only)	
	Specific consumption setting			Registration of the specific consumption to be used in the report	
		Number of registration points		Up to 100 points	
		Energy amount		Selected from the measuring point and virtual measuring point (virtual measuring point group)	
		Production amount			
	Report setting			Setting of the report format	
		Number of output items	Daily report	Up to 300 items 15 items/sheet x 20 sheets	
			Monthly report	Up to 300 items 15 items/sheet x 20 sheets	
			Annual report	Up to 300 items 15 items/sheet x 20 sheets	
		Output item		Selected from the measuring point, virtual measuring point (virtual measuring point group), and specific consumption	
	System setting			Setting the storage destination path for the daily report file Setting the storage destination path for the monthly report file Setting the storage destination path for the annual report file	
	Data collection setting	Collection at start-up		Setting for whether or not to perform the data collection when the software is started up Also, setting of whether or not to perform the collection for each file type	
		Passive mode		Setting for whether or not to use the passive mode when the EcoServer is connected	
		Storage period		Setting of the storage period for each file type	
			Daily	1 to 36 months (Default: 24 months)	
			Monthly	1 to 5 years (Default: 3 years)	
Processing schedule setting			Setting for the date and time of processing (closing date and time) of the report		
Data collection function	File collection		Collection of the logging file stored in the subsystem via the LAN		
		Collection timing	Time for the collection specified by the user At the software start-up At editing of the report (excluding the annual report)		
	File storage		Storage to the path specified for each subsystem		
		Daily	Data of up to 36 months (Variable from 1 to 36 months)		
		Monthly	Data of up to 5 years (Variable from 1 to 5 years)		
	Timing of file deletion		Logging files are deleted in order when they exceed the number of storage days.		
Data entry function	Daily data entry		Enters the hourly data of one day for the virtual measuring point for manual entry. (You can enter the data of up to 1 month ahead.)		
	Monthly data entry		Enters the daily data of one month for the virtual measuring point for manual entry. (You can enter the data of up to 1 year ahead.)		
	Batch entry of monthly data		Batch entry of the daily data for the specified date for the virtual measuring point for manual entry (You can enter the data of up to 1 year ahead.)		
Report creation function	Daily report		Creates a daily report of the specified date and saves it in Excel format.		
	Monthly report		Creates a monthly report of the specified month and saves it in Excel format.		
	Annual report		Creates an annual report of the specified year and saves it in Excel format.		
Maintenance function	Back-up		Makes backup of the setting value and data to a folder.		
	Restore		Restores the setting value and data backed up in the specified folder.		

1.5 Storage

Avoid storage of the hardware key and CD-ROM in the places as described below.

- Places where the ambient temperature exceeds the range of 5° to 45°C
- Places where the daily average temperature exceeds 35°C
- Places where the ambient humidity exceeds the range of 10 to 90% RH, or places where condensation exists
- Places exposed directly to rain, water droplets, or sunlight, or places close to heating appliances
- Places subject to frequent vibration or impacts
- Places where a large amount of dust, corrosive gases, salinity, or soot exists
- Places where pieces of metal or similar substances are scattered
- Places where there is a strong magnetic field or a high exogenous noise

1.6 After-sales service

If a defect in quality is found within one year from the purchase of the product, or within 18 months of its manufacture, whichever is earlier, and the responsibility for the cause of such defect lies with Mitsubishi Electric Corporation, we will provide a replacement with no charge.

However, a charge will be made for the replacement in the cases as listed below even within one year after the purchase.

- When the defect arises from an incorrect operation
- When the defect arises from a misuse

In addition, a charge will be made for the service maintained for the product purchased before more than one year.

1.7 Disposal

Dispose of the product in compliance with the laws and regulations determined by the local government.

CHAPTER 2 PREPARATIONS FOR USE

To operate this software, **Microsoft Excel is separately required** on the computer to which the software is installed.

For the usable versions of Microsoft Excel, see the operating environment listed below.

2.1 Operating environment

The system environment necessary for this software to operate correctly is as shown below.

Item	Details
OS (basic software)	English version of Microsoft Windows XP (32 bits) (SP3) Professional English version of Microsoft Windows Vista (32 bits) (SP2) Business English version of Microsoft Windows 7 (32 bits/64 bits) Professional
Required software	English version of Microsoft Excel 2003 (SP3)/2007 (SP3)/2010 (32 bits/64bits) (SP1)
CPU	For Windows XP: Processor of Pentium 400 MHz or greater Or a compatible microprocessor (DOS/V compatible) For Windows Vista or Windows 7: As recommended for the operating system
Memory ^{*1}	As recommended for the operating system
Hard disk ^{*1}	Software: Approx. 100 MB or more, Data: 8 GB or more ^{*2}
CD-ROM drive	1 drive (for installing the software)
LAN	10/100/1000BASE-T ×1
USB connector (Type A)	1 connector (for connecting the hardware key)
Display resolution	800×600 pixels or more
Display color	256 colors or more

^{*1} Note that the required memory and available hard disk space may vary depending on the system environment.

^{*2} Shows the capacity required when the product is used with 2 subsystems connected at the maximum.

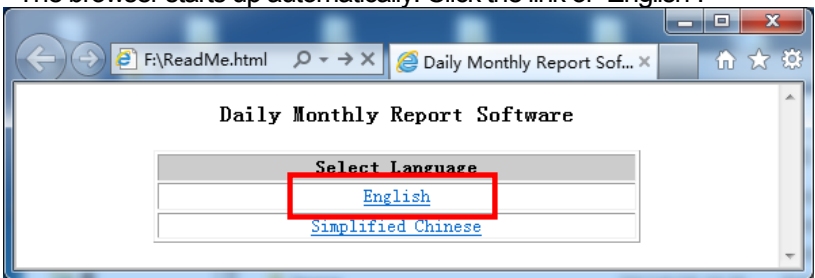
2.2 Installing the software

You can install this software easily using the special installer.
When setting up this software for the first time, make sure to read this chapter before executing the set-up.

- * To install the software, it is necessary to log in the computer as a user having an administrator authority.
- * This software can be installed on one client computer.
- * The hardware key is not used during installation. It is used at the startup (during startup).

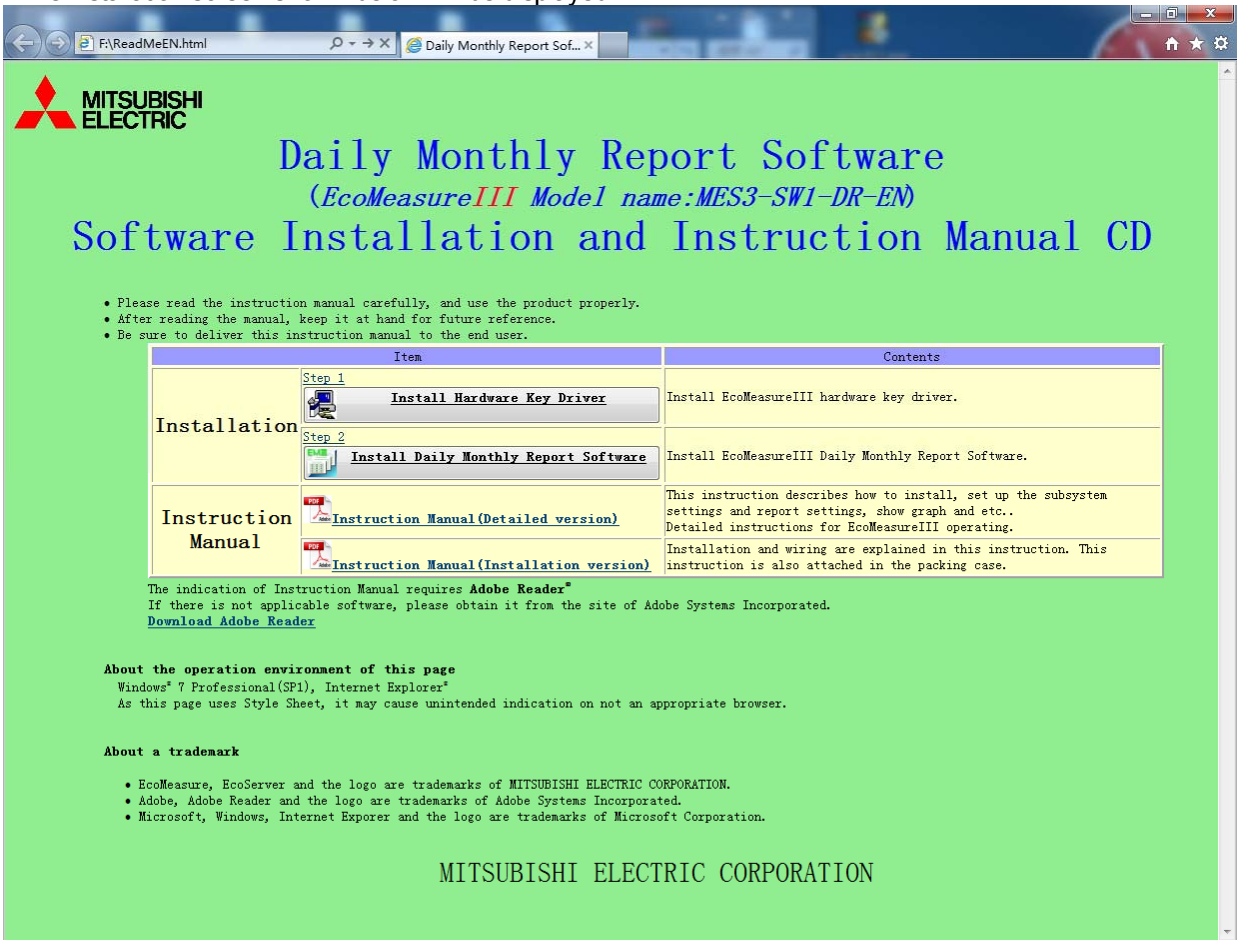
2.2.1 Preparing for the installation

- (1) Insert the CD-ROM storing this software into the CD drive of the computer.
- (2) The browser starts up automatically. Click the link of "English".



*If the software does not start up automatically, open the CD drive using the Explorer and execute "ReadMe.html."

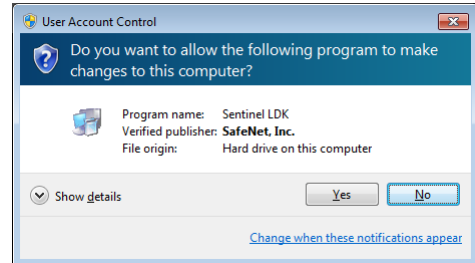
- (3) The installation screen shown below will be displayed.



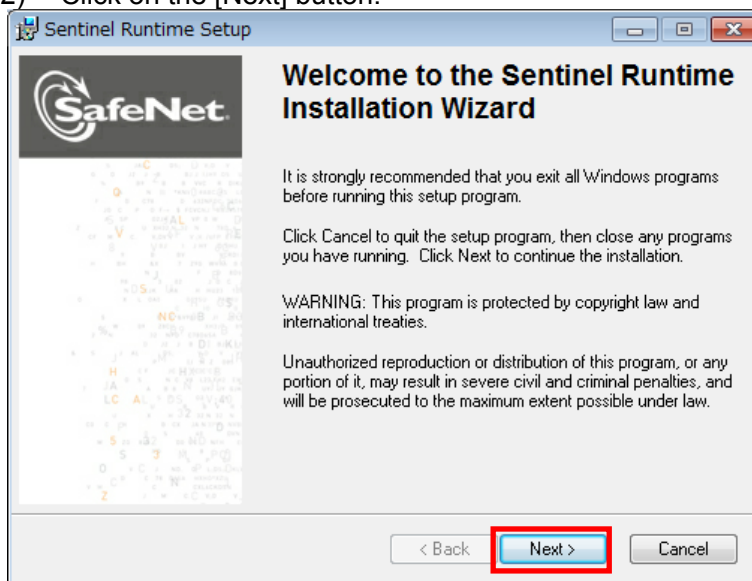
2.2.2 Installing the device driver for the hardware key

- (1) Click on [Install Hardware key Driver] in the installation screen.
Click on the [Run] button to start up the installer.

If the user account control screen as shown on the right appears, click on the [Yes] button to continue the installation.



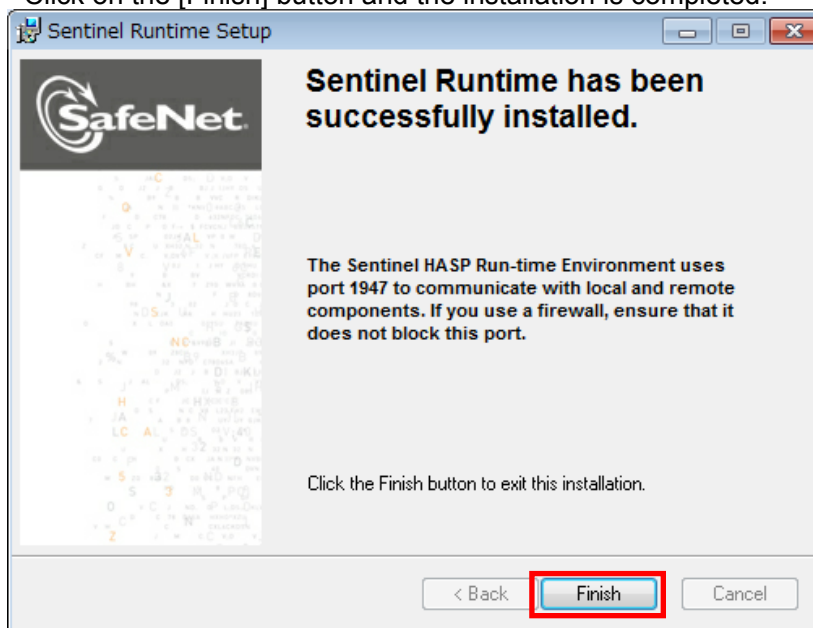
- (2) Click on the [Next] button.



- (3) The screen shown below is displayed.
The License Agreement is displayed. Select [I accept the license agreement] and click on the [Next] button. The installation is started.



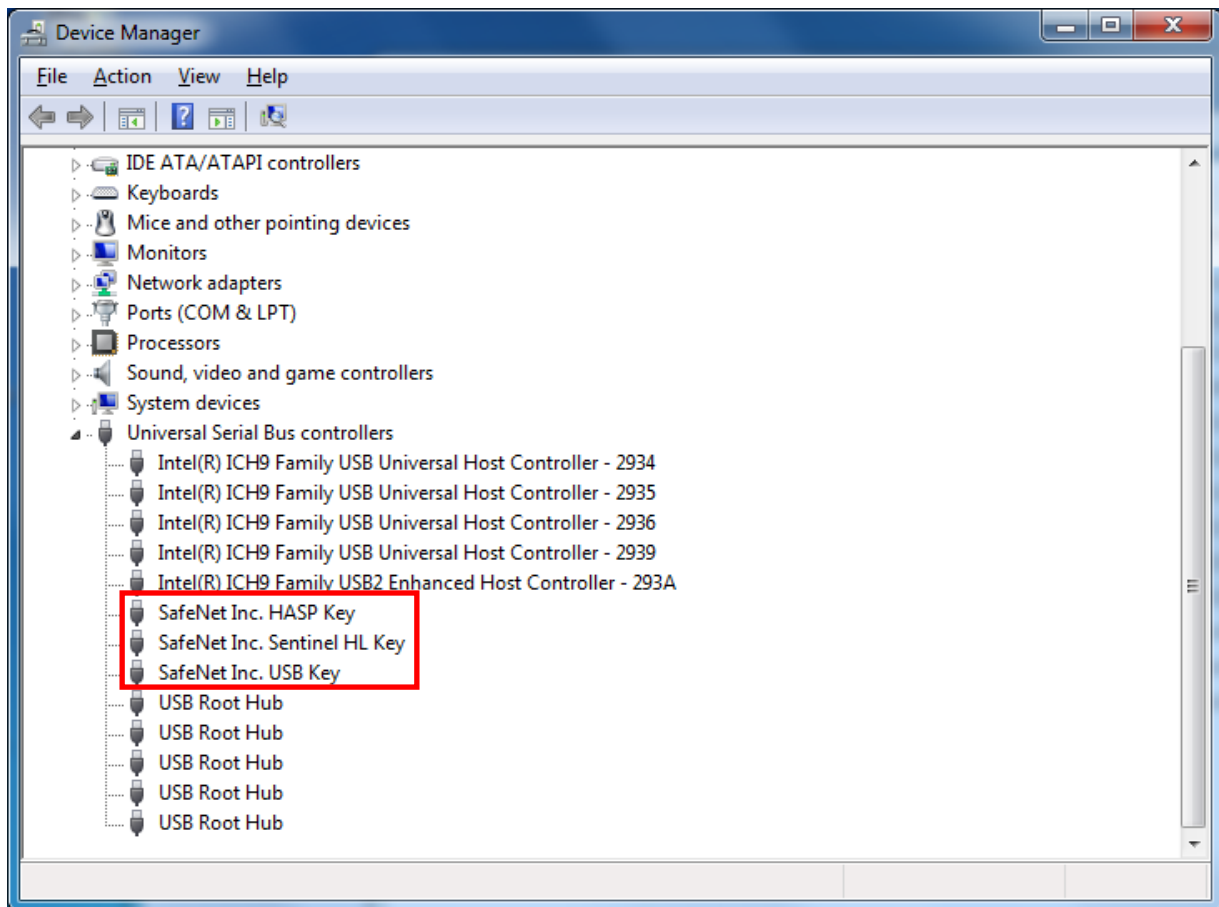
- (4) The completion screen of the installation is displayed.
Click on the [Finish] button and the installation is completed.



(5) Connecting the hardware key

Connect the hardware key to the USB port on the computer.

Use the Device Manager to check that the hardware key has been recognized.

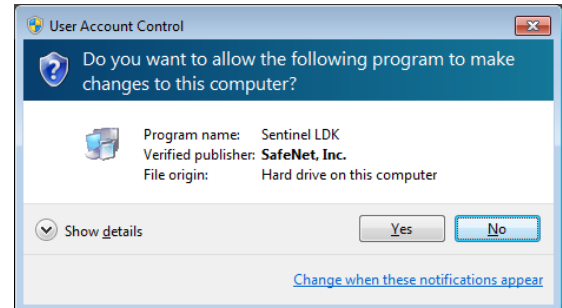


* Refer to the online help or other manuals provided with the used operating system for the procedure to display the Device Manager.

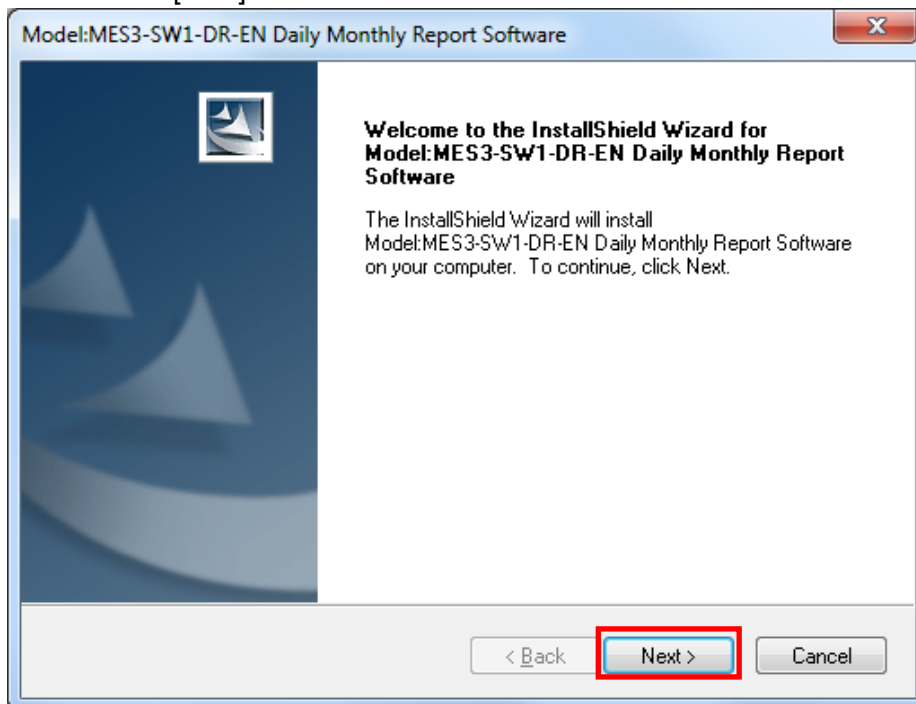
2.2.3 Installing EcoMeasure III

- (1) Click on [Install Daily Monthly Report Software] in the installation screen.
Click on the [Run] button.

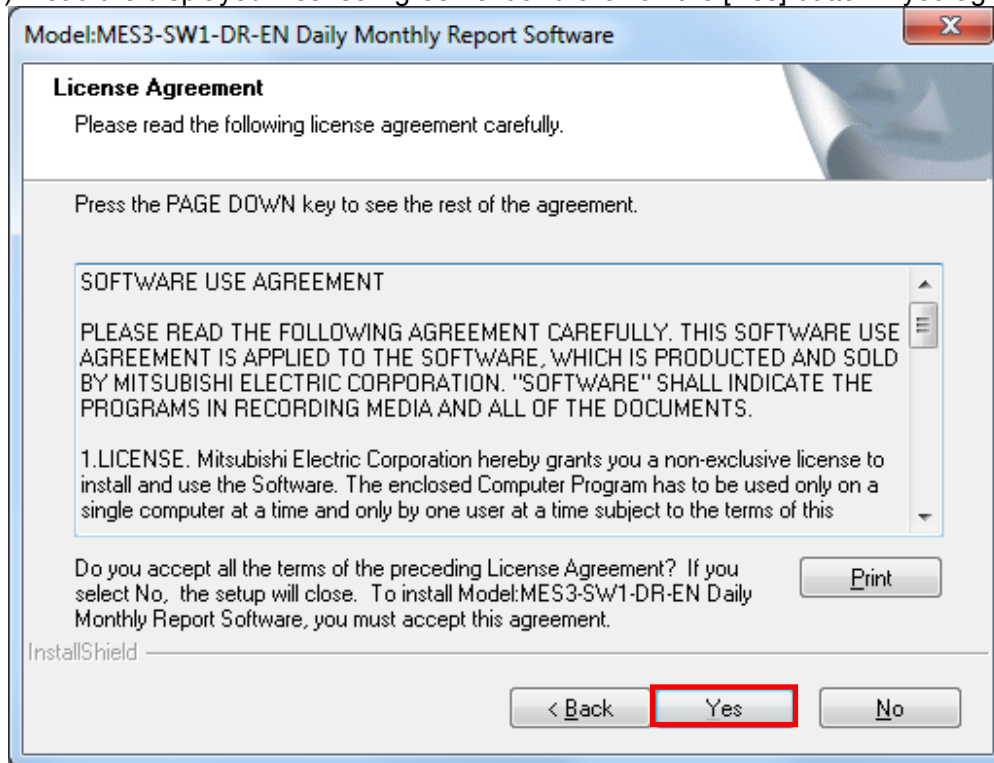
* If the screen as shown on the right is displayed, click on the [Yes] button to continue the installation.



- (2) The InstallShield Wizard screen for the Daily/Monthly Report Software is displayed.
Click on the [Next] button.

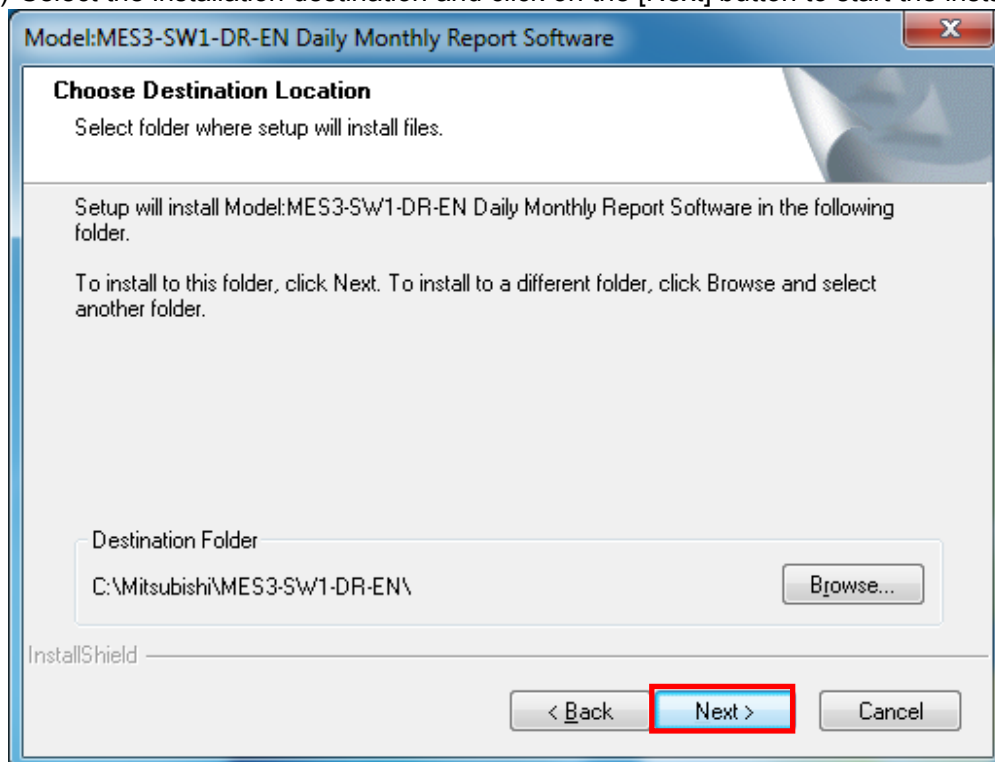


- (3) Read the displayed License Agreement and click on the [Yes] button if you agree with its terms.



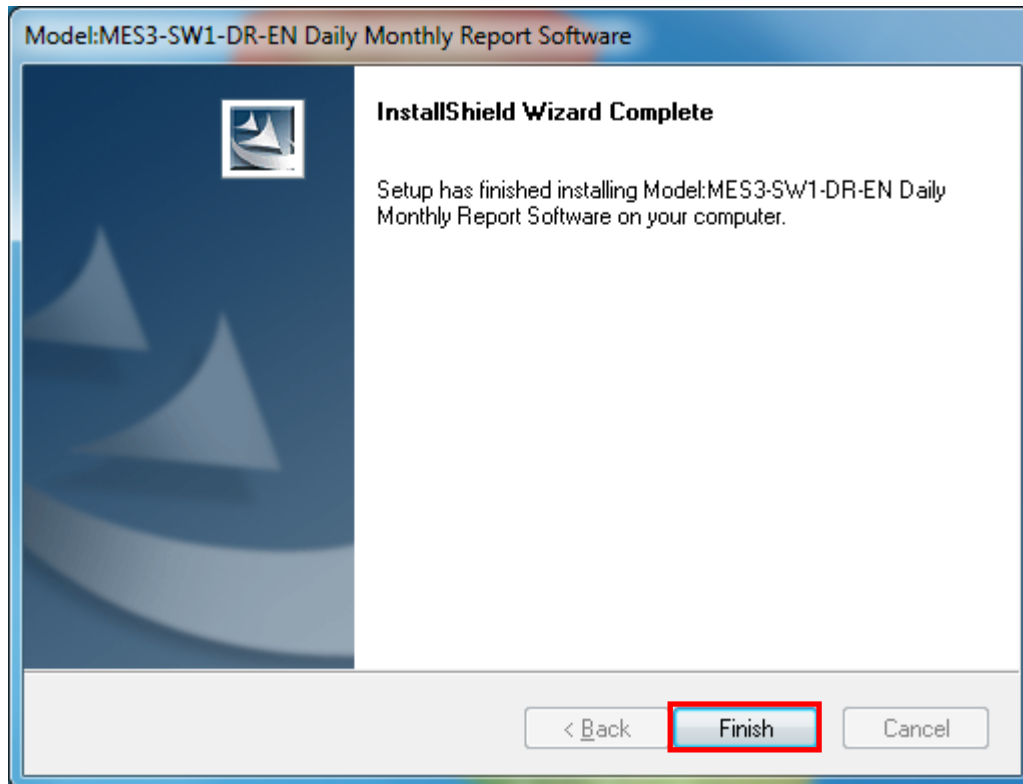
If the [No] button is selected (if you do not agree with the terms of the License Agreement), the installation is terminated.

- (4) Select the installation destination and click on the [Next] button to start the installation.



- * By default, the software is installed in "C:\Mitsubishi\MES3-SW1-DR-EN\."

- (5) When the screen shown below is displayed, click on the [Finish] button. The installation is completed.



- * Depending on the environment being used, the restart of the computer may be required after the completion of the installation.
In such a case, follow the displayed message and restart the computer.

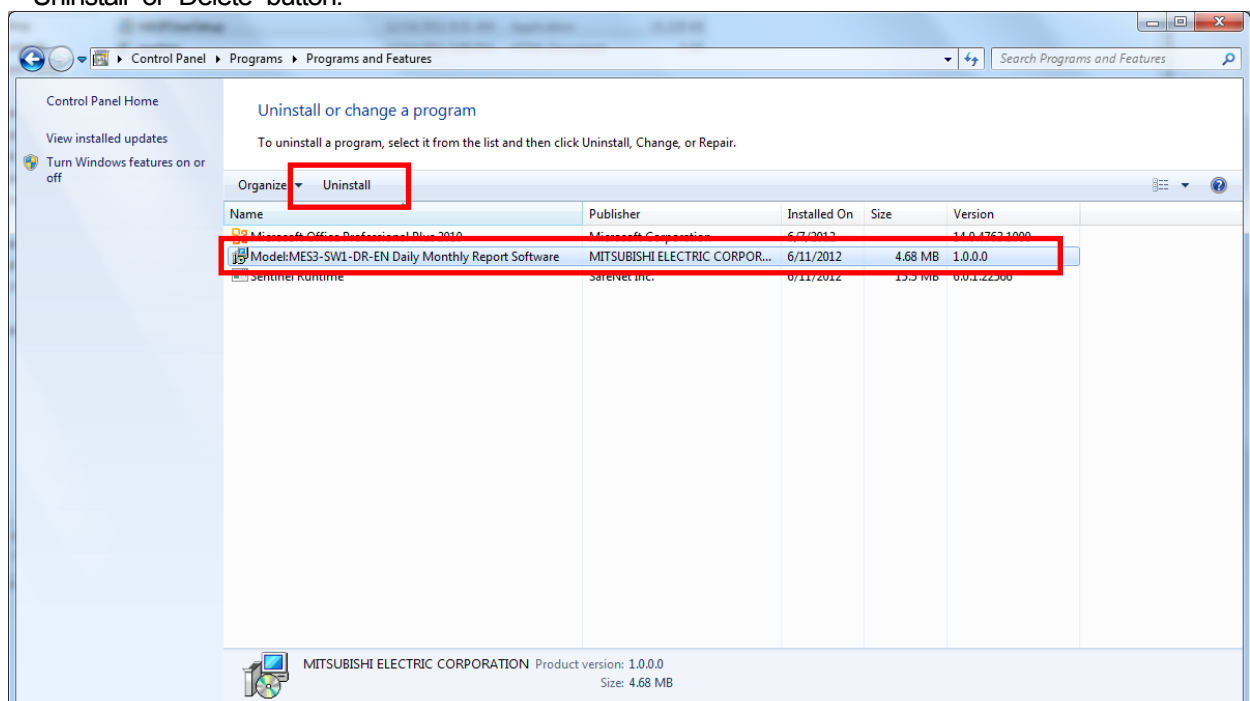
2.3 Uninstalling the software

When this software is no longer necessary, it can be easily deleted from the computer using the installer.

- * To uninstall the software, it is necessary to log in the computer as a user having an administrator authority.

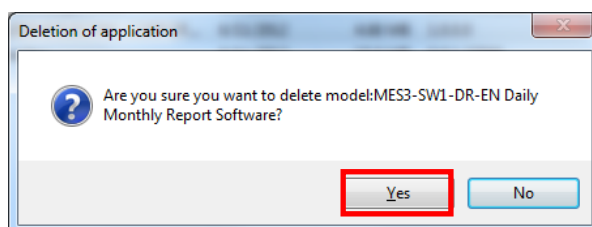
2.3.1 Uninstalling EcoMeasure III

- (1) Open the Control Panel and uninstall the program.
On Windows XP : Select “Add or Remove Programs”
On Windows Vista/Windows 7 : Select “Programs” – “Uninstall a program”
- (2) Select “Model: MES3-SW1-DR-EN Daily Monthly Report Software” from the list and then click on the “Uninstall” or “Delete” button.

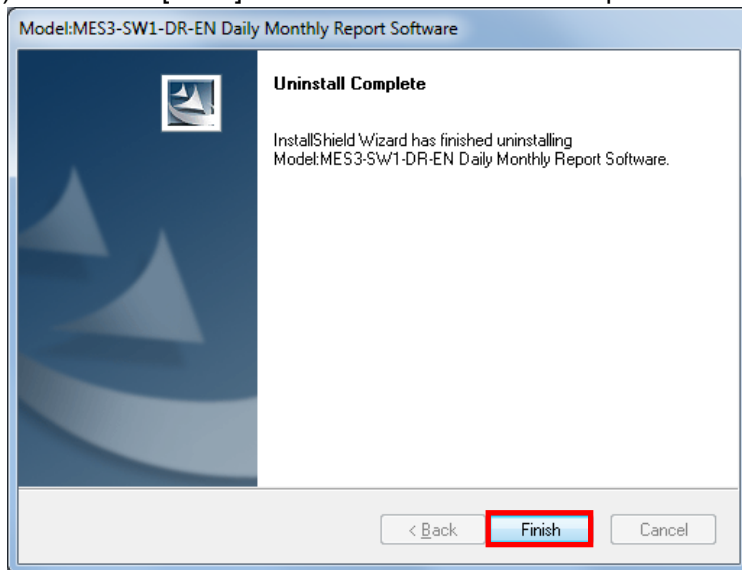


The screen shown above is an example of Windows 7.

- (3) The confirmation message will be displayed. Click on the [Yes] button. The uninstallation is started.



- (4) Click on the [Finish] button. The uninstallation is completed.



- * The specific consumption CSV folders and report folders which have been created during use will not be deleted.
Note that the setting data will be deleted.

2.3.2 Uninstalling the device driver for the hardware key

- (1) In the Control Panel, select the device driver for the hardware (*) using “Programs” – “Uninstall a program” (or “Add or Remove Programs” on Windows XP), and click on the “Uninstall” or “Delete” button.

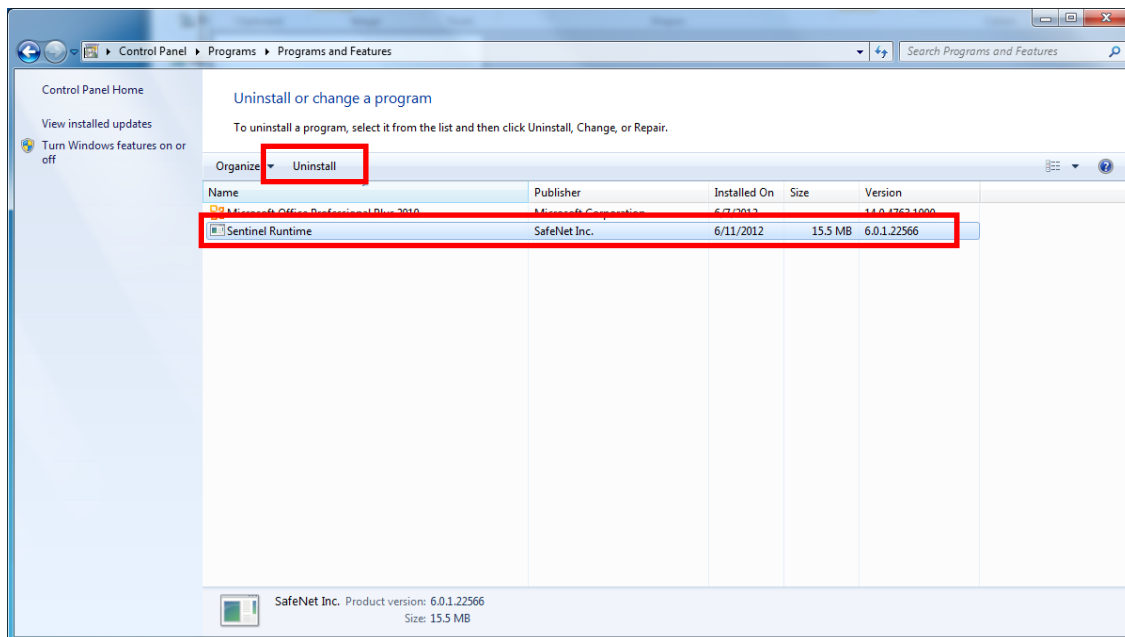
* The name of the device driver for the hardware differs as shown below depending on the version being used.

“Sentinel Runtime”

“HASP SRM Run-time”

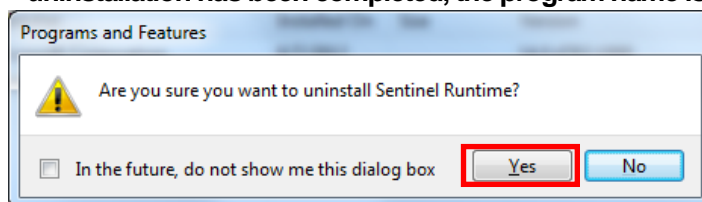
“HASP HL Drive Driver”

“HASP Device Driver”

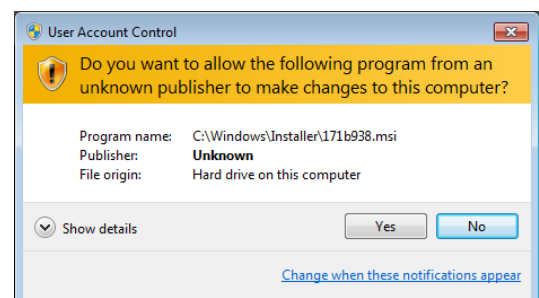


* The screen shown above is an example of Windows 7.

- (2) When the confirmation message is displayed, click on the [Yes] button. The uninstallation is executed. **(There is no message displayed to indicate that the uninstallation has finished. When the uninstallation has been completed, the program name is deleted from the list.)**



* If a screen as shown on the right is displayed, click on the [Yes] button to continue the uninstallation.



2.4 Cautions for use

Please be aware of the following when using this software.

- (1) While this software is running, do not open the daily or monthly report file (Excel file) or file collected from the subsystem (CSV file) to be saved.
- (2) Set the same date and time on the subsystems and the computer.
* See “5.1.1 Data collection timing” for details.
- (3) The storage period of the data of the subsystem is limited.
Collect the data periodically because the report of the data saved in the past may not be created due to the expiration.
* When the data is collected and the report is created for the first time, the report of the data of the subsystem which has exceeded the storage period cannot be created.
- (4) To use this software, log in the computer as a user having an administrator authority. Otherwise, the software may not be operated correctly depending on the used environment.

CHAPTER 3 BASIC OPERATIONS

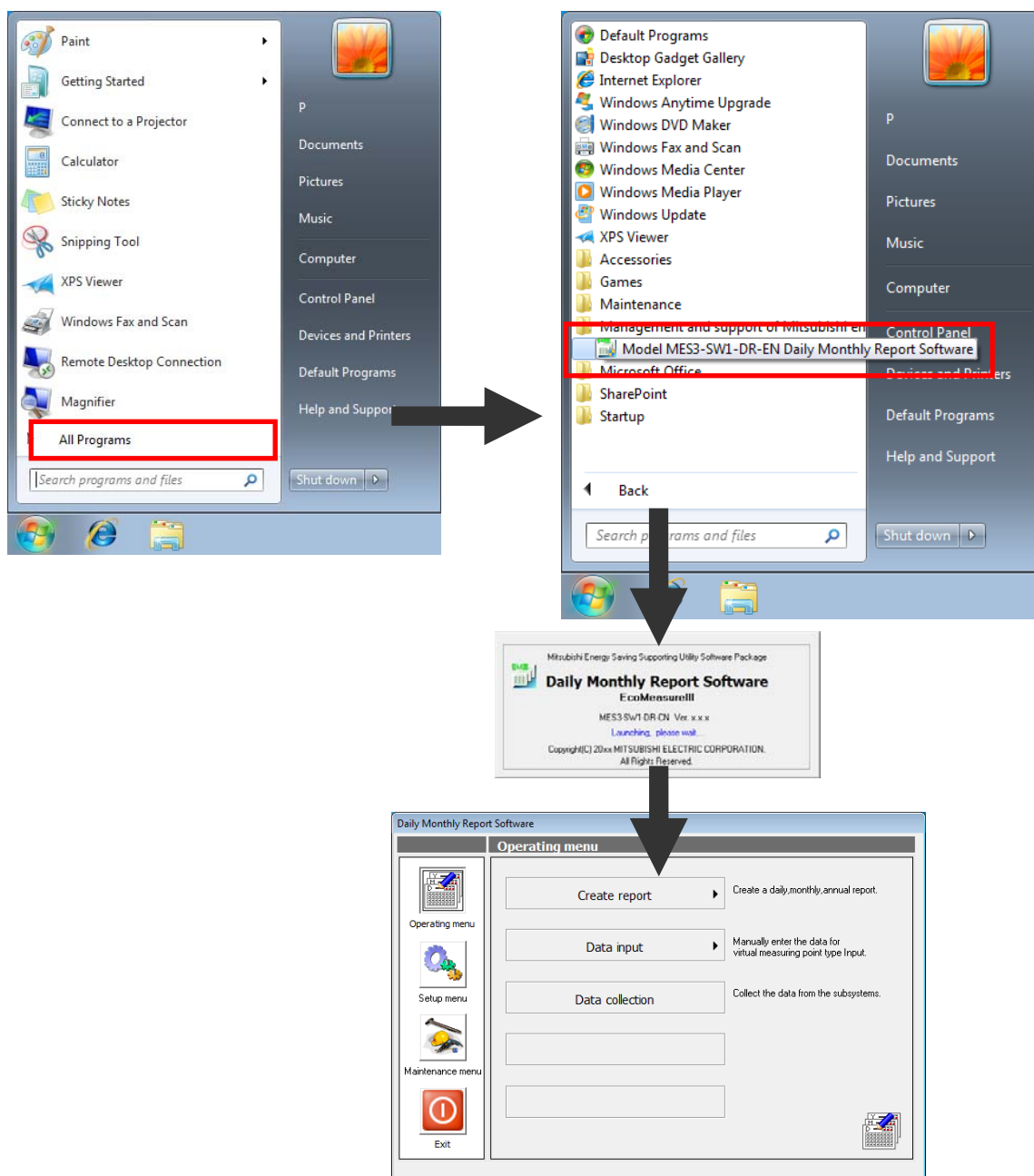
This chapter explains the basic operation of this software.

3.1 Starting up and exiting the software

(1) Starting up the Daily Monthly Report Software

(a) Starting up from the Start Menu

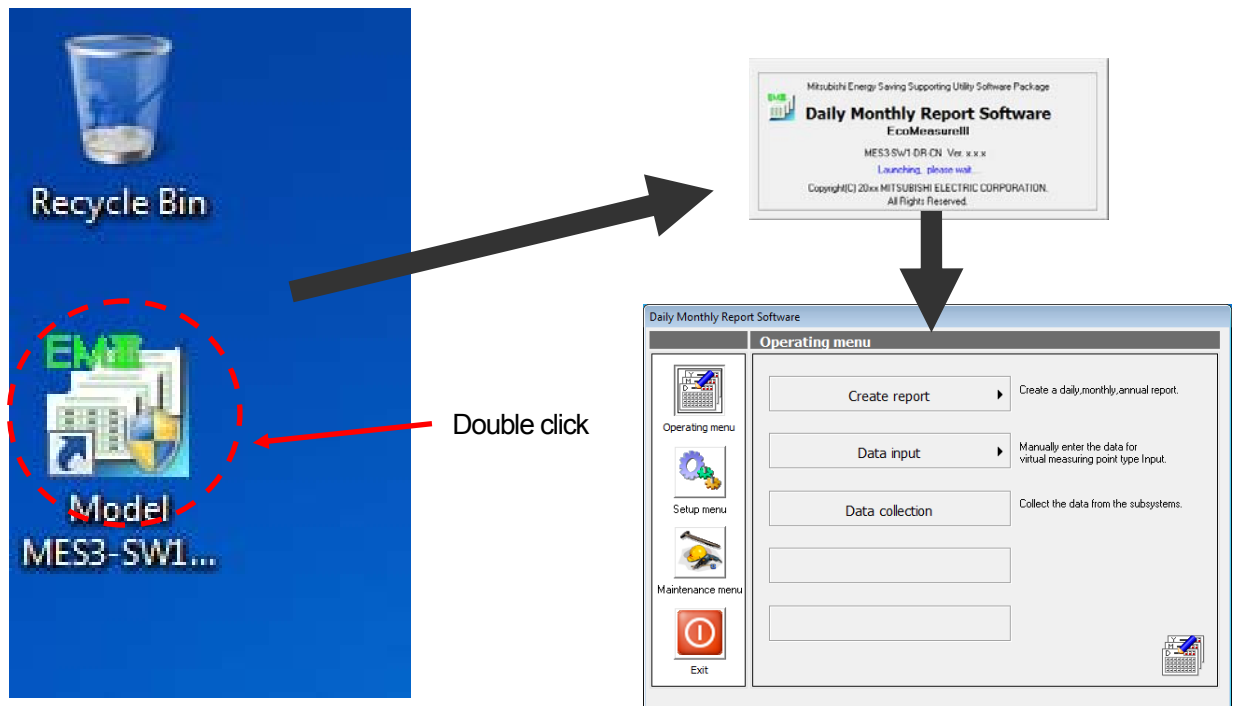
Click on the [Start] menu - [All Programs] - [Management and support of Mitsubishi energy conservation] - [Model MES3-SW1-DR-EN Daily Monthly Report Software] to start up the software.



* The actual display of the screen illustrated above varies depending on the operating system being used or the applications being installed.

(b) Starting up from the shortcut on the desktop

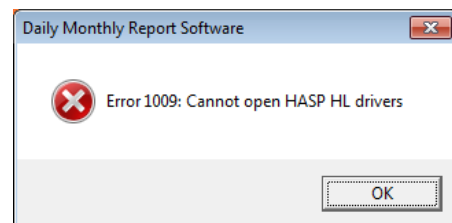
Double click on the “Model MES3-SW1-DR-EN Daily Monthly Report Software” shortcut shown on the desktop to start up the software.



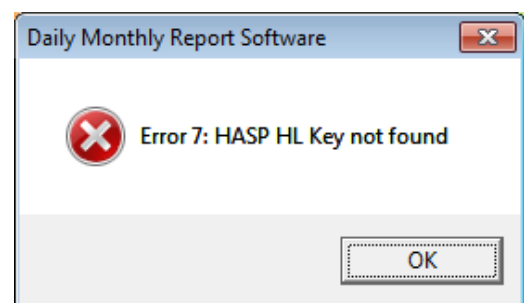
* The actual display of the screen illustrated above varies depending on the operating system being used or the applications being installed.

* When the software cannot be started up

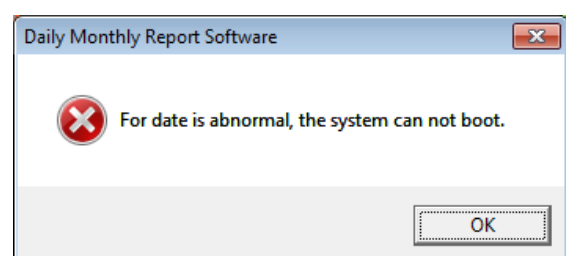
The message shown on the right is displayed if the driver for the hardware key has not been installed. Install the device driver for the hardware key.



The message shown on the right is displayed if the hardware key is not connected. Connect the hardware key to the USB port.

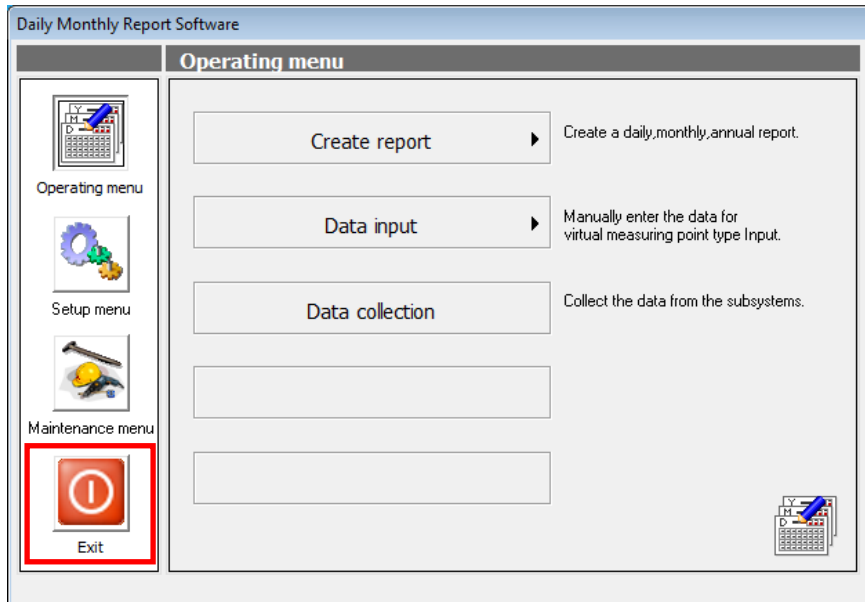


The message shown on the right is displayed if the system clock on the computer is set to the date before April 1, 2004. Change the system clock on the computer to a date after April 1, 2004.

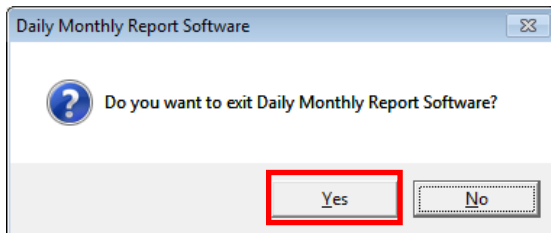


(2) Exiting the Daily Monthly Report Software

[1] Click on the [Exit] button in the main menu screen.



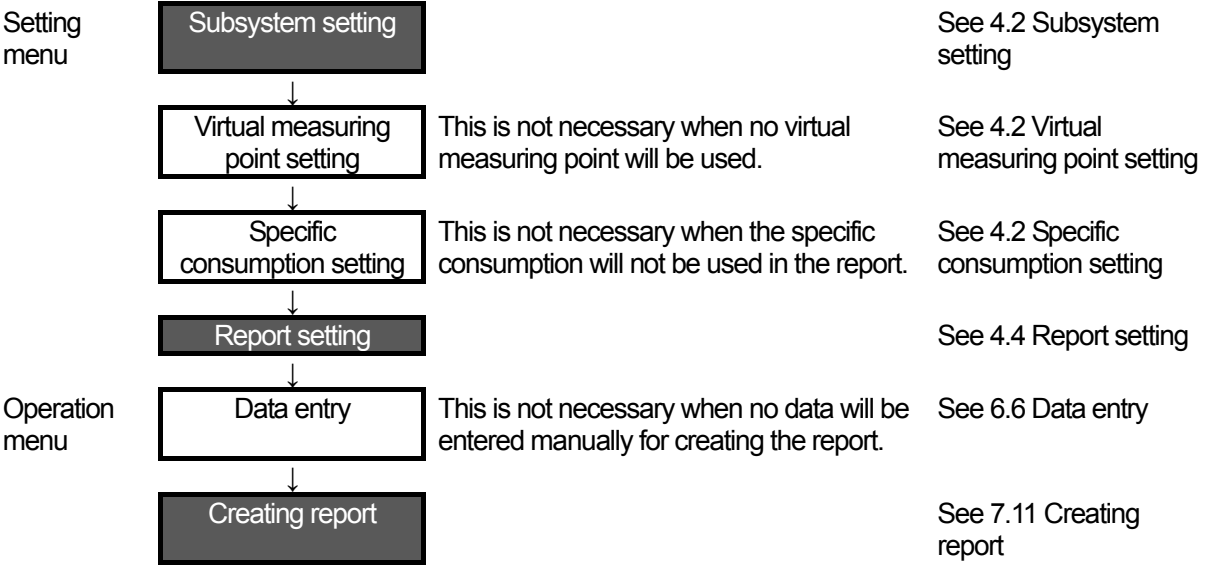
[2] The confirmation message will be displayed. Click on the [Yes] button to exit the software.



3.2 The procedure from the setting to use

(1) Creating the report

To create the report, follow the procedure shown below.



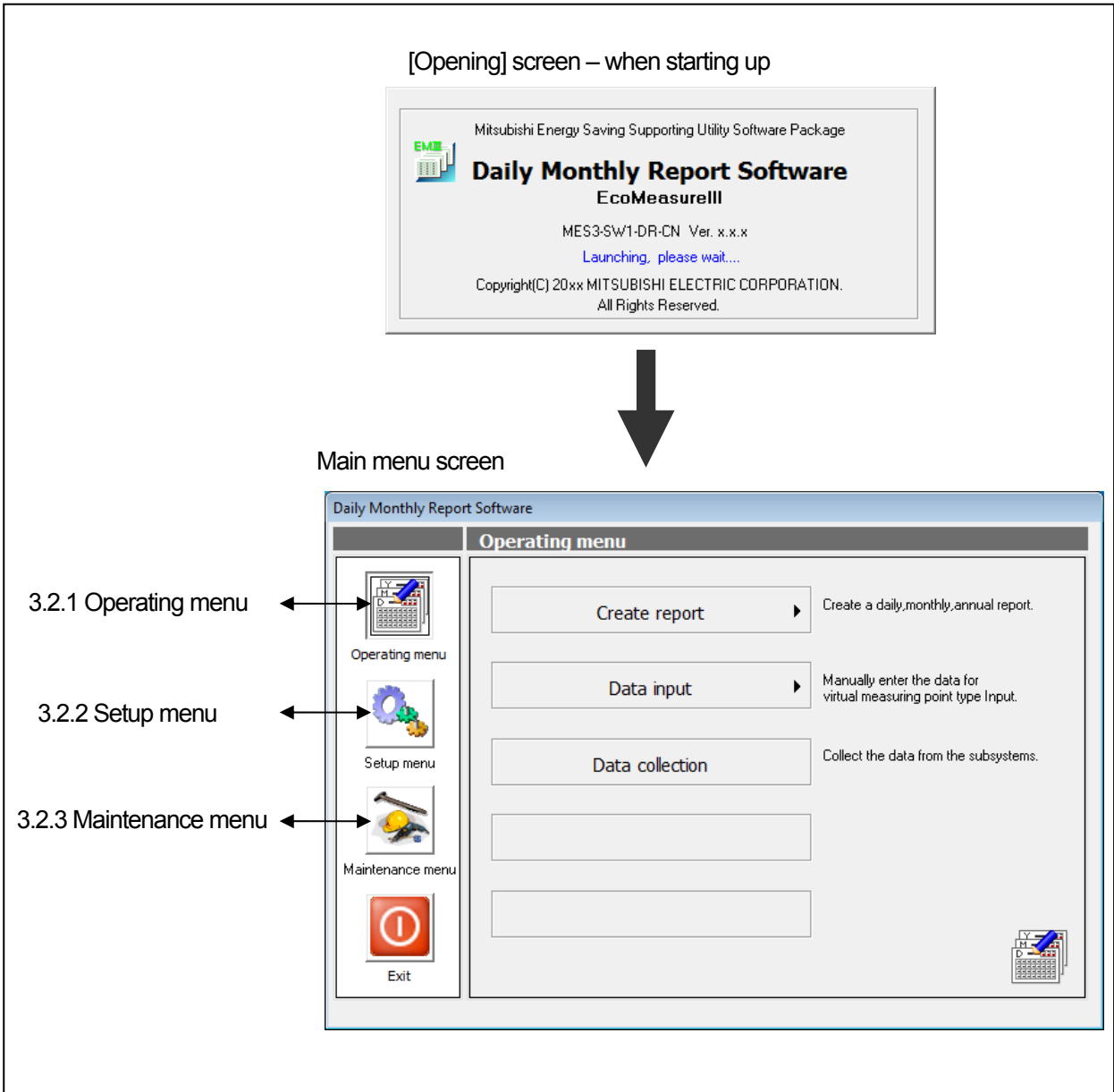
(2) Collecting the data from the subsystem

To collect the data of the subsystem into the computer, follow the procedure shown below.

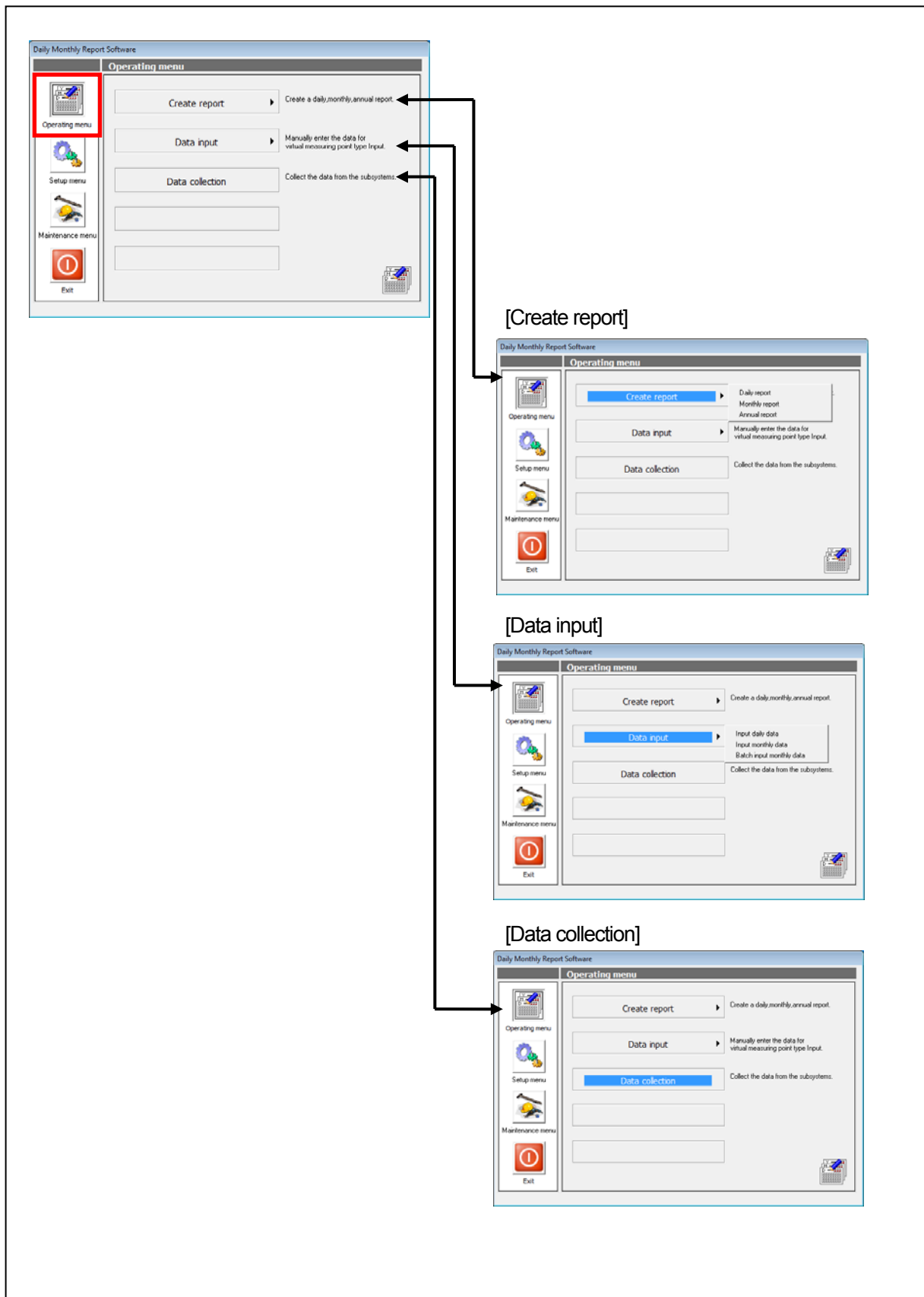


3.3 Screen configurations

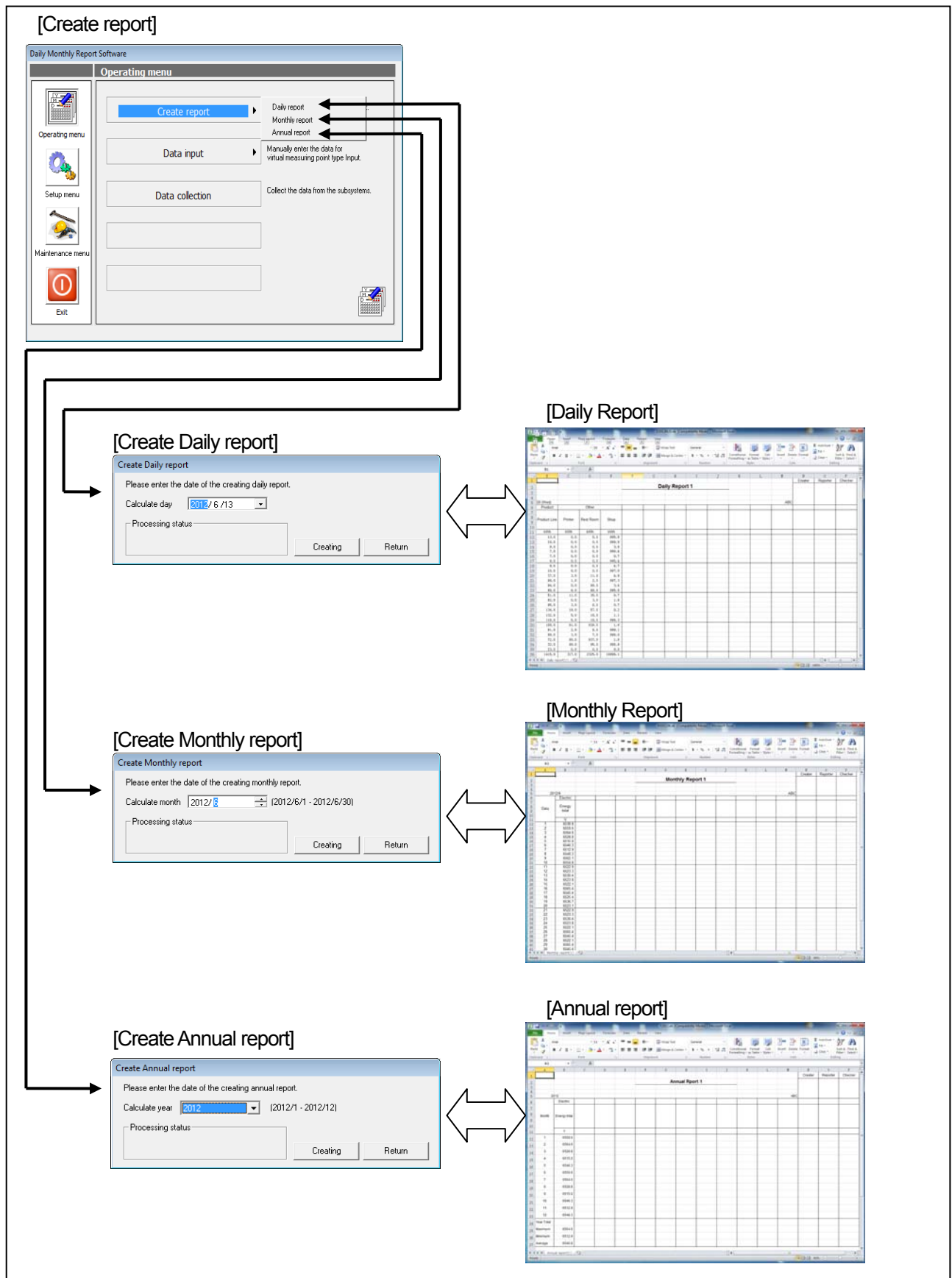
The screen of this software is configured as shown below.



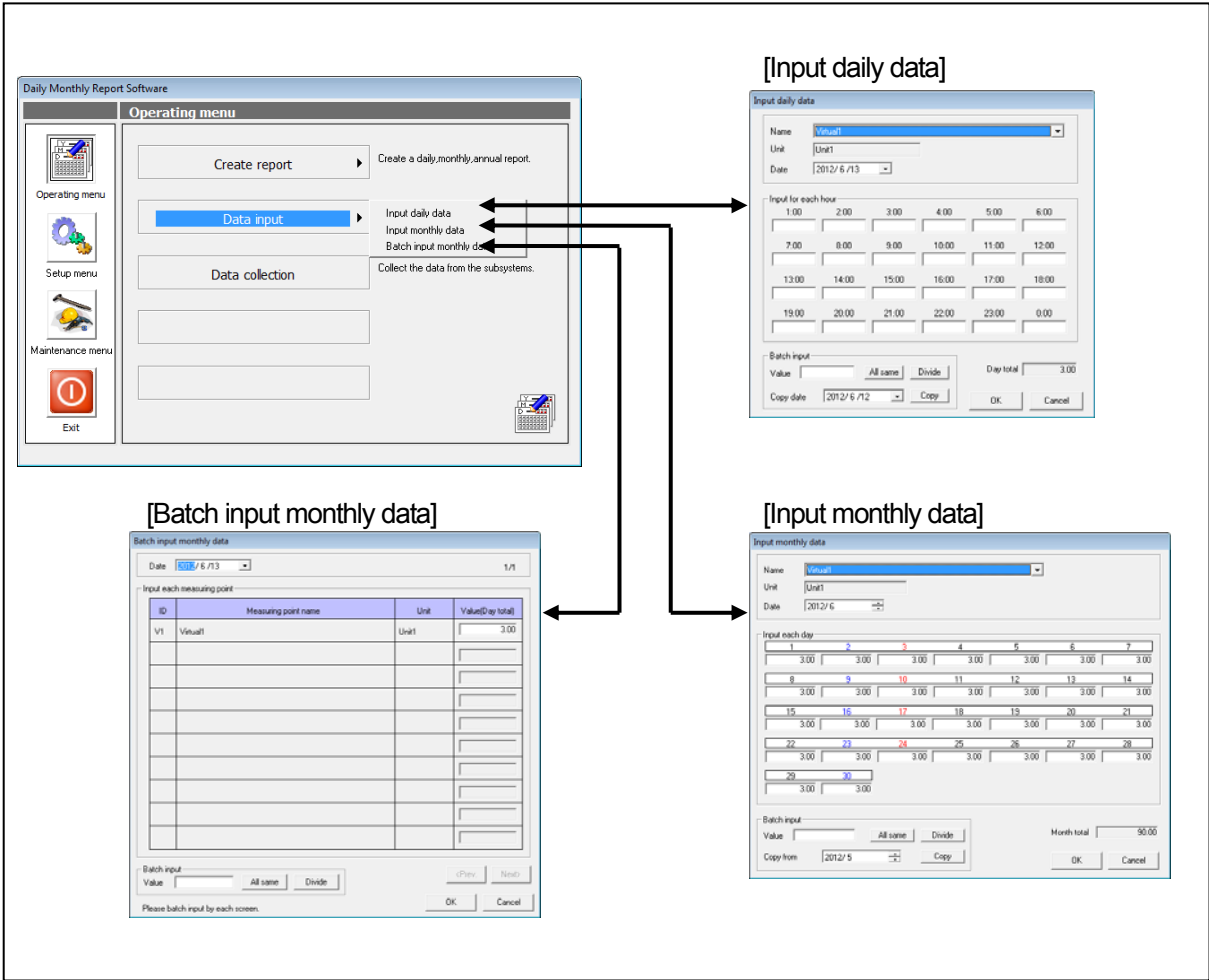
3.3.1 Operating menu



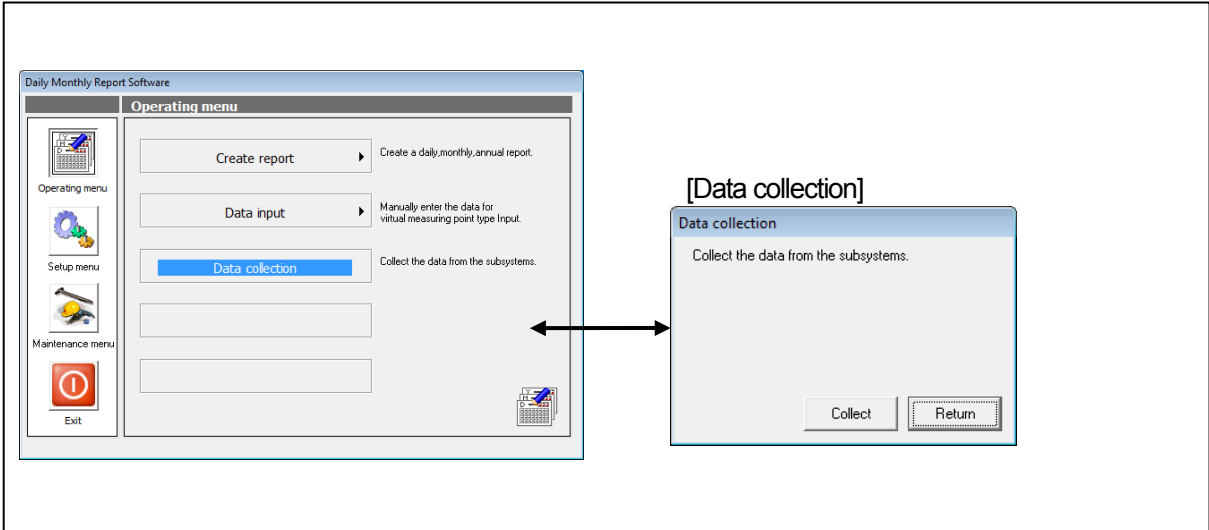
(1) Create report



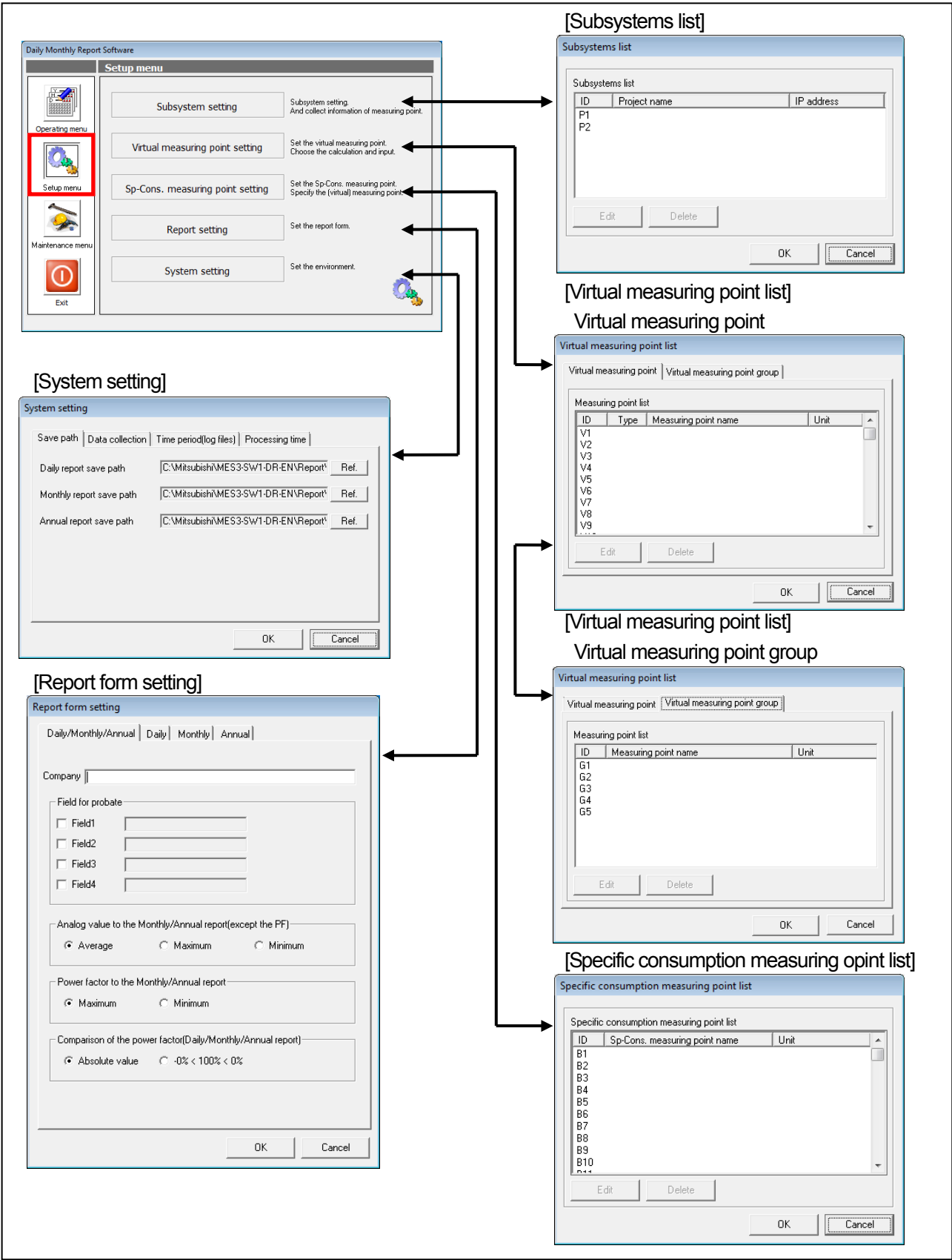
(2) Data input



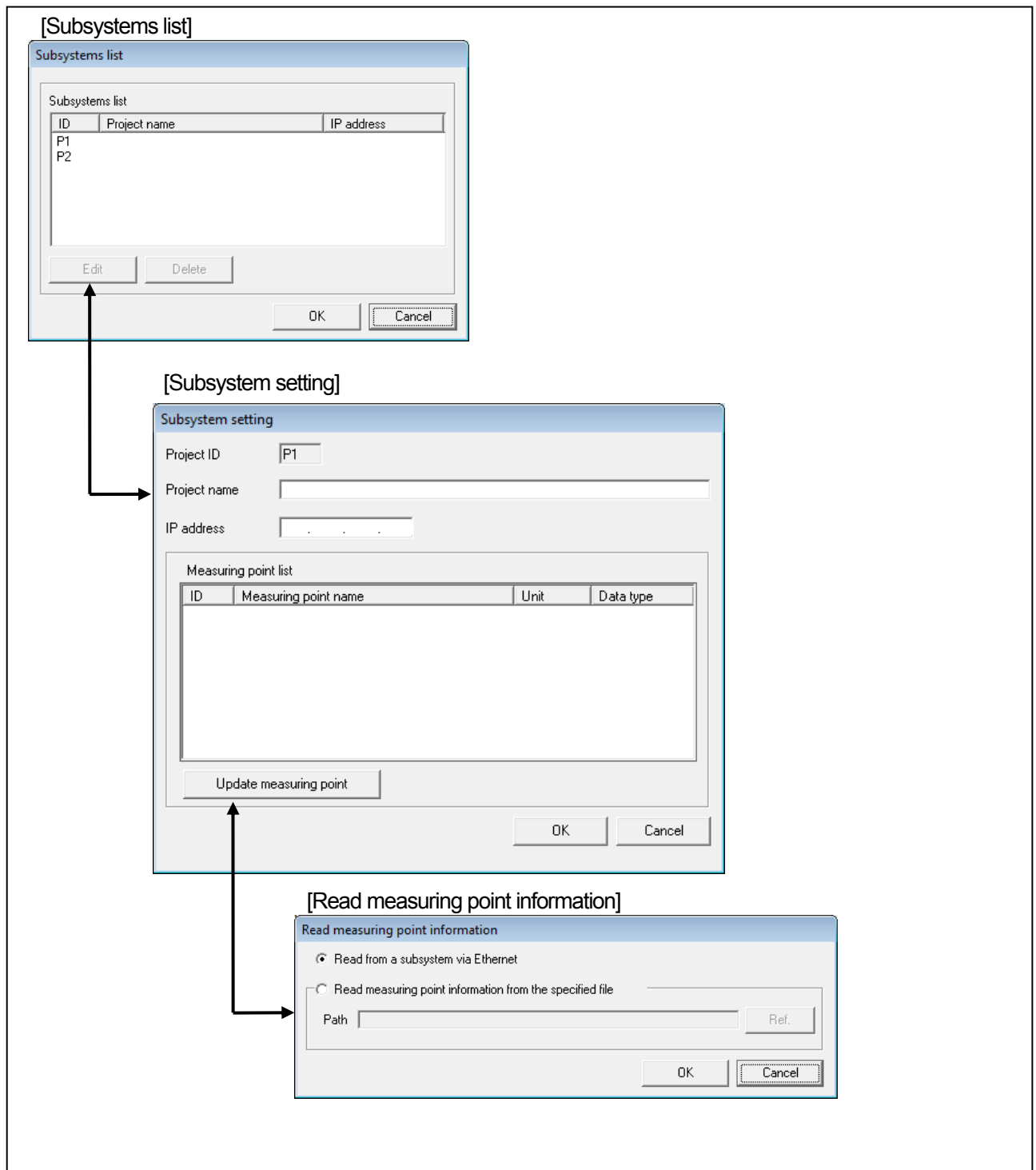
(3) Data collection



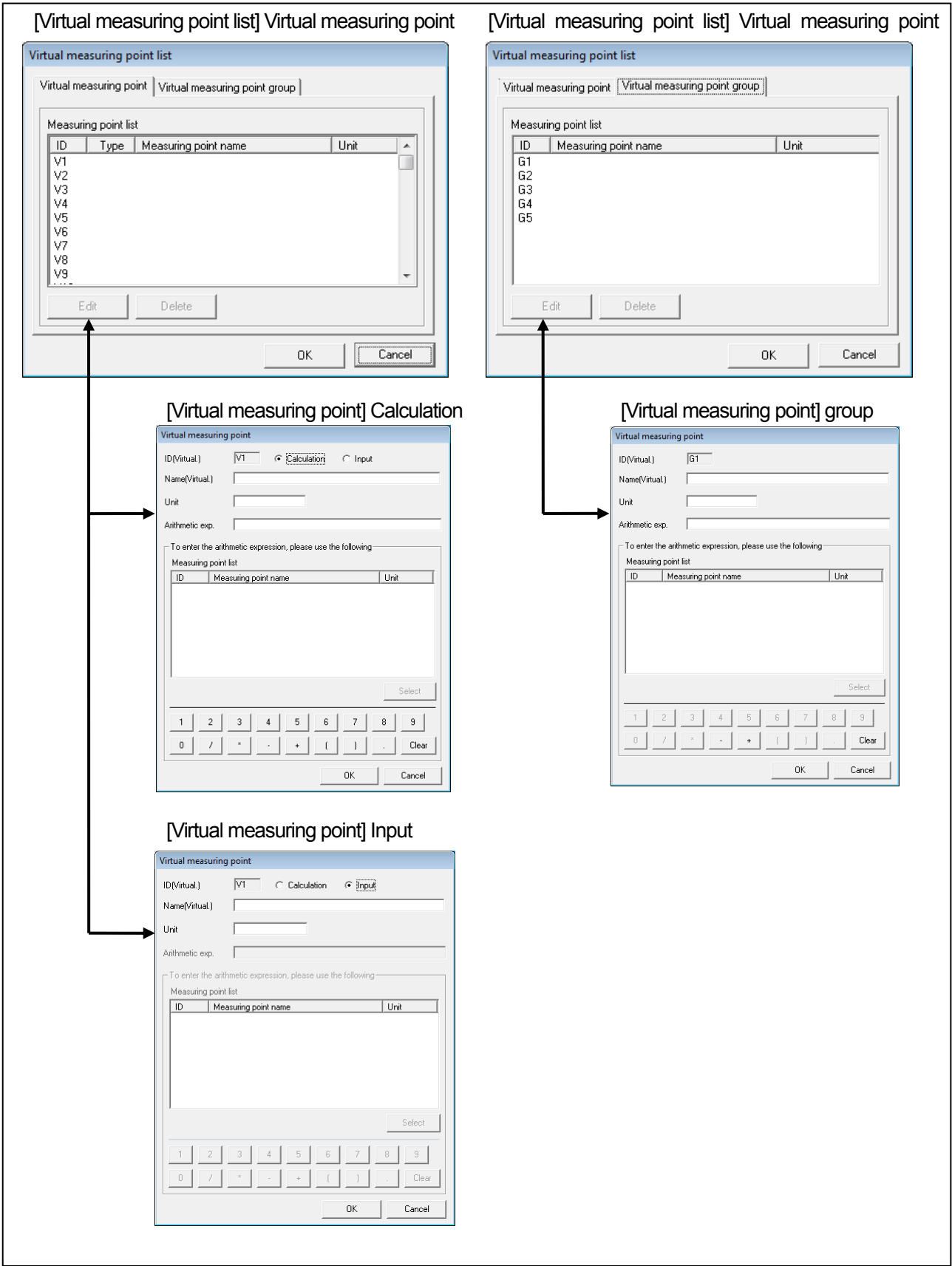
3.3.2 Setup menu



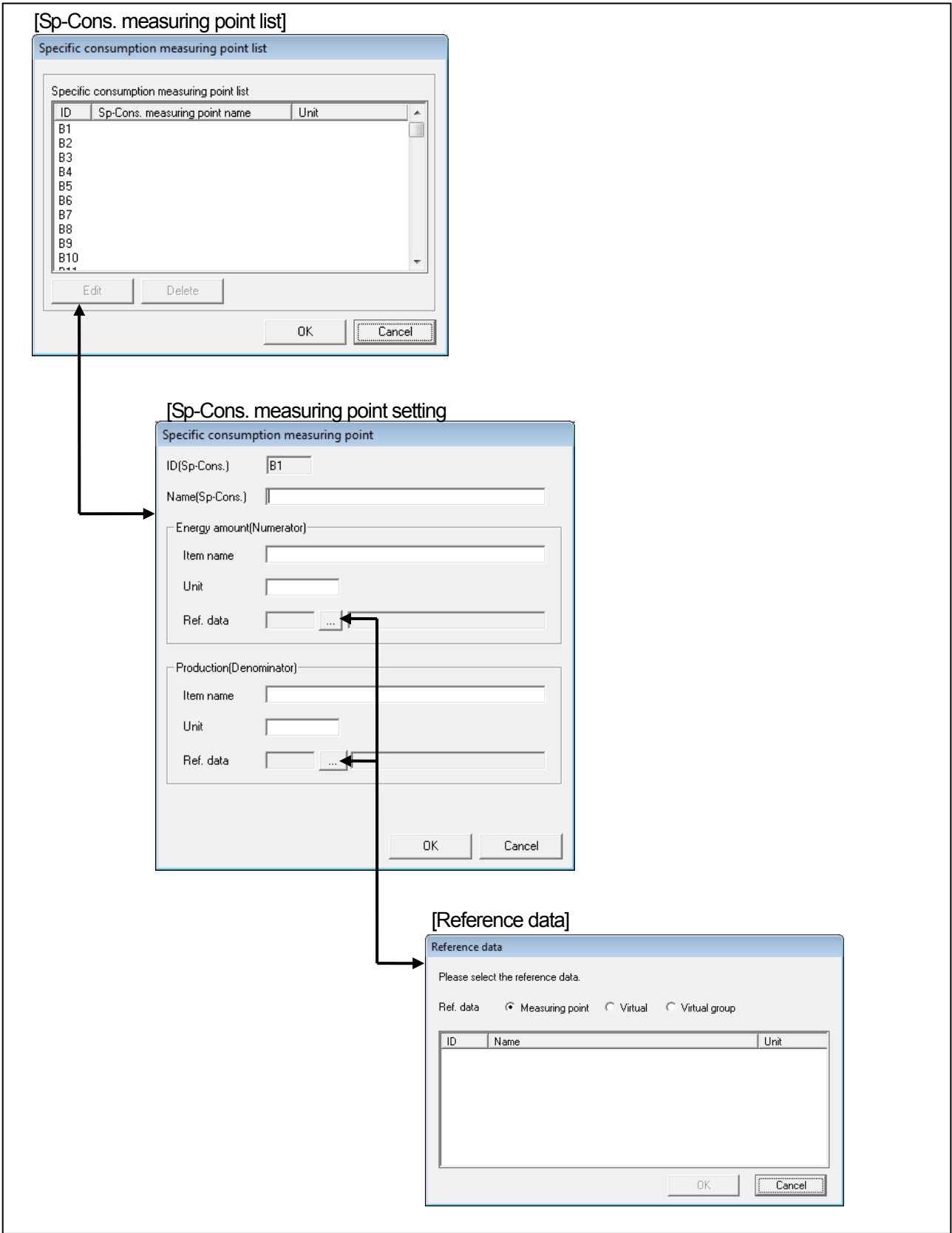
(1) Subsystem setting



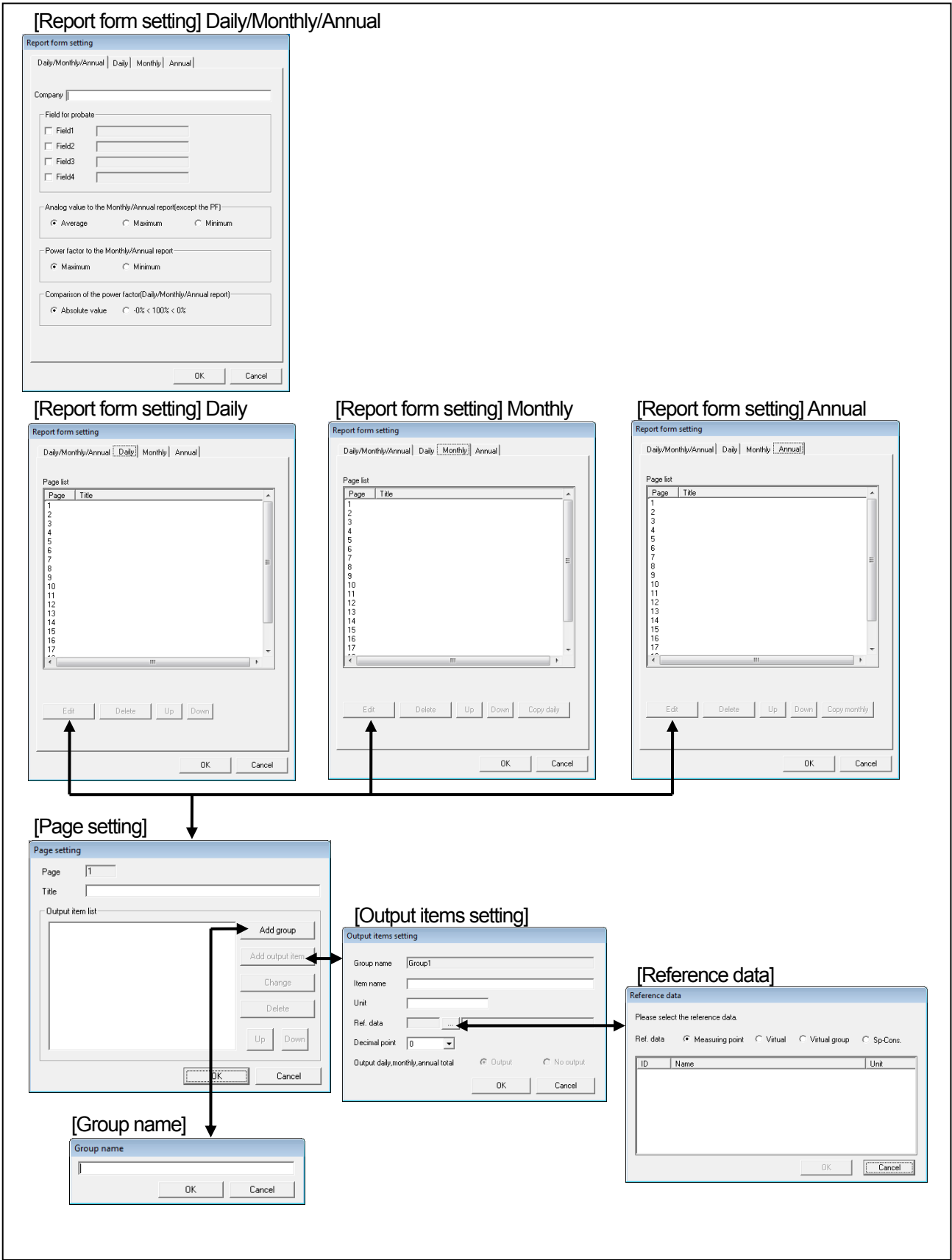
(2) Virtual measuring point setting



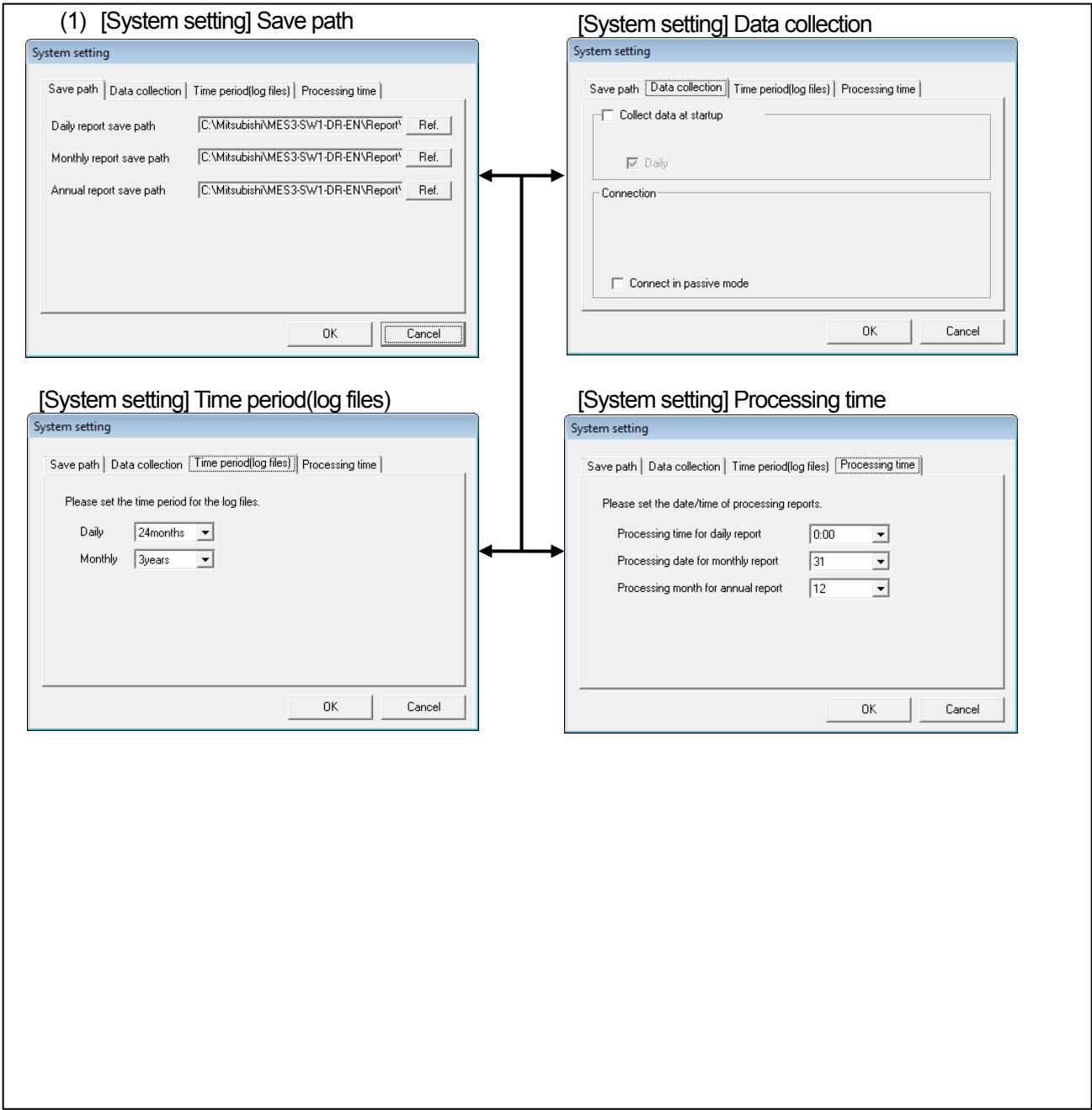
(3) Sp-Cons. measuring point setting



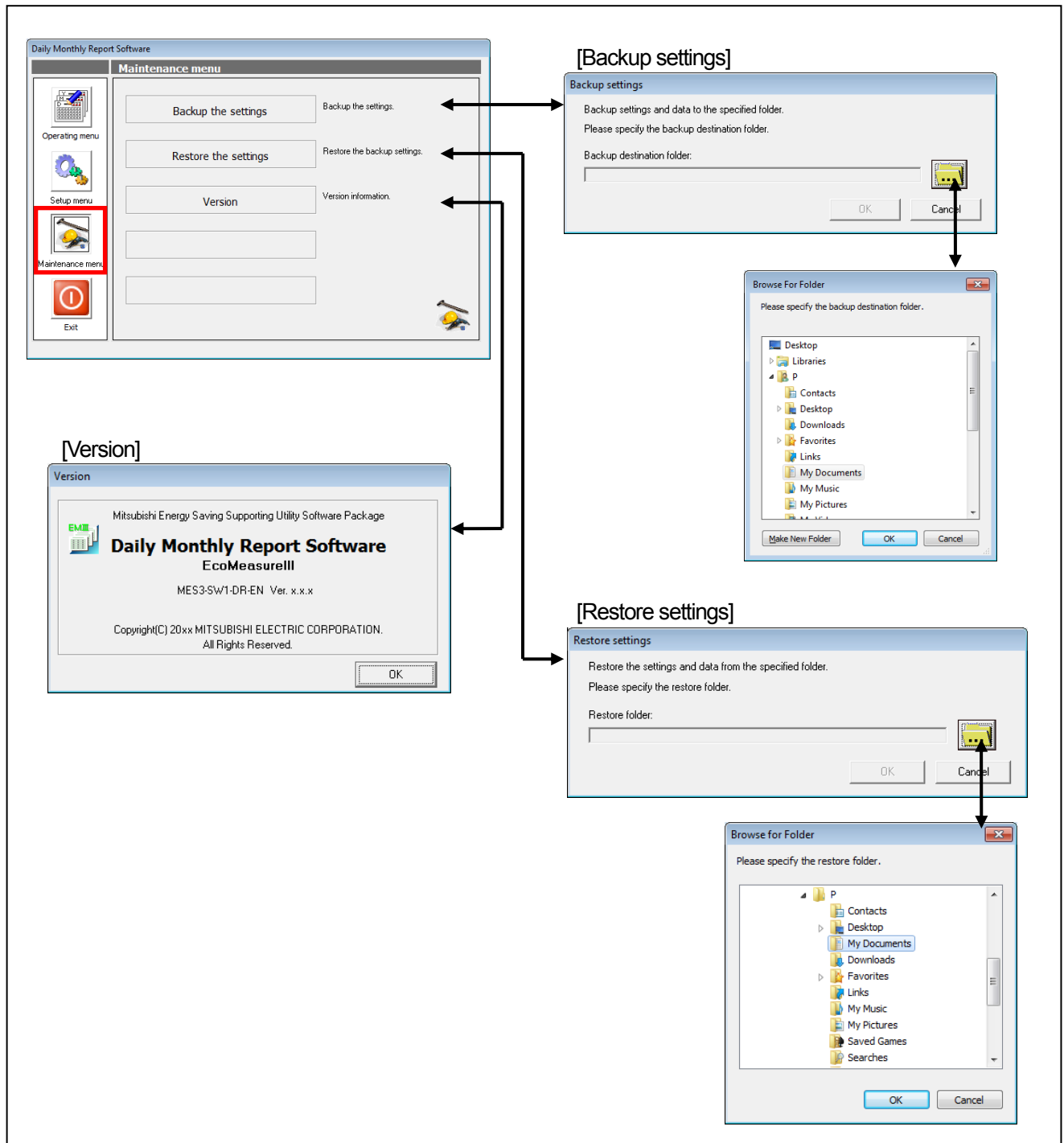
(4) Report setting



(5) System setting

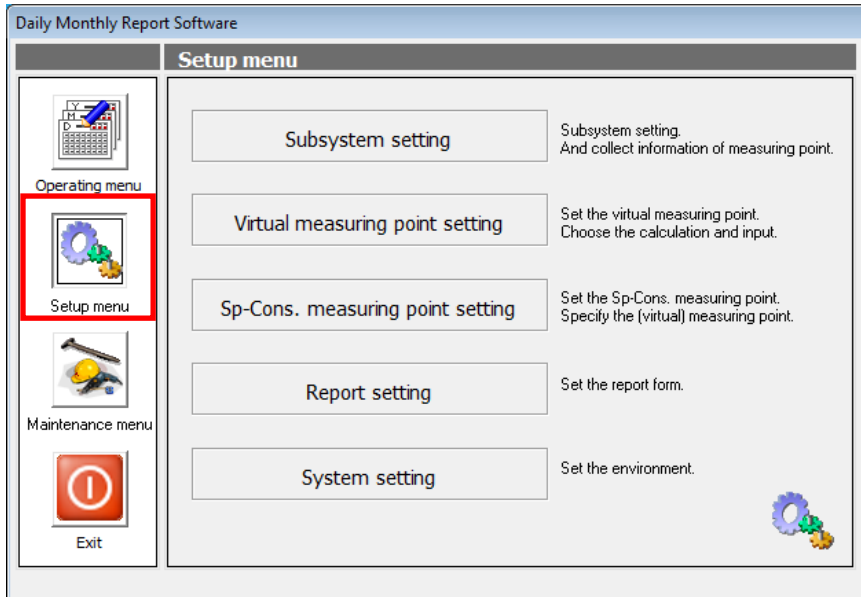


3.3.3 Maintenance menu



CHAPTER 4 SETUP FUNCTION

This function configures the settings necessary for this software to operate.
Click on [Setup menu] in the main menu screen to display the setting menu.



4.1 Subsystem setting

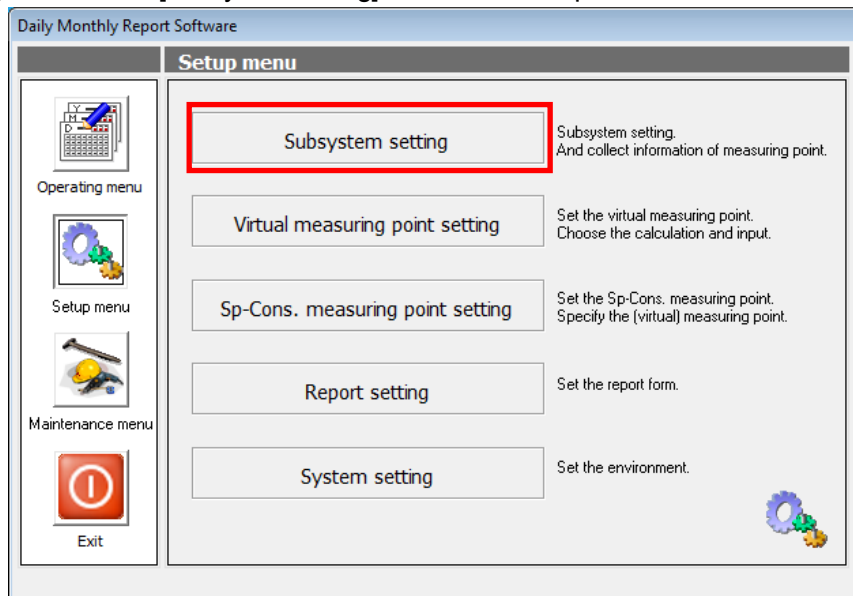
This item sets the project information (IP address, measuring point information, etc.) of the subsystem managed by this software.

- * Project means the subsystem which is set in this software.
- * Up to 2 projects can be set.

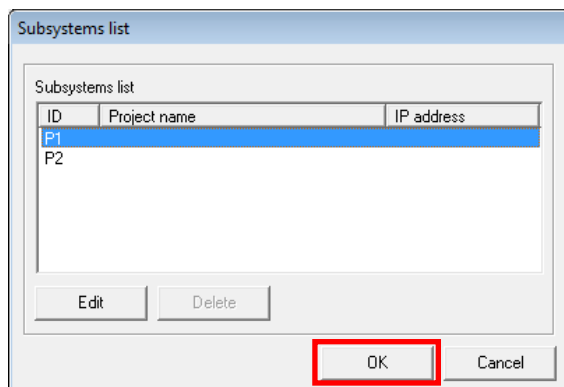
4.1.1 Registering the project

The following procedure registers the new project.

- (1) Click on the [Subsystem setting] menu in the Setup menu.



- (2) The [Subsystems list] screen is displayed.
Select the ID of the project to be set and click on the [Edit] button.



- (3) The [Subsystem setting] screen is displayed.
Set the project name and IP address.

Subsystem setting

Project ID

P1

Project name

Factory A

IP address

192 . 168 . 10 . 2

Measuring point list

ID	Measuring point name	Unit	Data type
----	----------------------	------	-----------

Update measuring point

OK

Cancel

Item	Details
Project ID	Enter the desired project name. Up to 32 characters can be entered.
IP address	Enter the IP address of the subsystem. *** . *** . *** . *** *** : 0 to 255 (0.0.0.0 or *** . *** . *** .255 cannot be set.)

(4) Then, update the measuring point information.

The following two methods can be used to update the measuring point information.

- (a) Reading from the main body of the subsystem via the LAN
- (b) Reading from the setting file of the measuring point information acquired by the setting software of the subsystem

(a) When reading from the subsystem via the LAN

(i) Click on the [Update measuring point] button.

Subsystem setting

Project ID: P1

Project name: Factory A

IP address: 192.168.10.2

Measuring point list

ID	Measuring point name	Unit	Data type
----	----------------------	------	-----------

Update measuring point

OK Cancel

(ii) The [Read measuring point information] screen is displayed.

Select [Read from a subsystem via Ethernet] and click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

The measuring point information read from the subsystem is displayed in the [Subsystem setting] screen.

Read measuring point information

☒ Read from a subsystem via Ethernet

☐ Read measuring point information from the specified file

Path: Ref.

OK Cancel

Subsystem setting

Project ID: P1

Project name: Factory A

IP address: 192.168.10.2

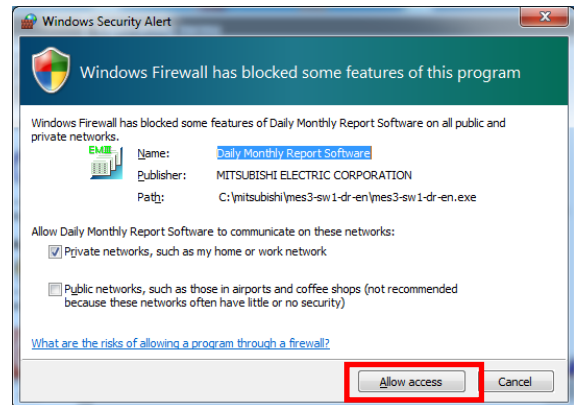
Measuring point list

ID	Measuring point name	Unit	Data type
P1K1	Energy1	kWh	Pulse
P1K2	Current1	A	Analog
P1K3	Voltage1	V	Analog
P1K4	Power factor1	%	Power factor
P1K5	Leakage current1	mA	Analog
P1K6	Count1	Piece	Pulse
P1K7	Count2	Piece	Pulse
P1K9	Energy3	kWh	Pulse
P1K10	Energy4	kWh	Pulse

Update measuring point

OK Cancel

- * When the software communicates with the subsystem for the first time, the screen as shown on the right may be displayed. Click [Allow access] to set the firewall to unblock the Daily Monthly Report Software. If you select cancel by mistake, use the Windows firewall setting in the operating system to allow communications of the “Daily Monthly Report Software.”



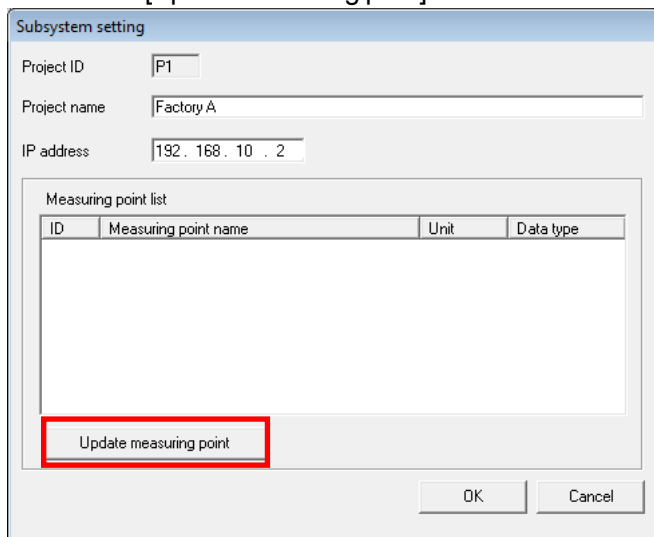
[Displayed contents of the measuring point list]

Item	Details
ID	The ID of the measuring point is displayed in “PnKm” format. Pn : Project ID (n = 1 to 2) Km : Measuring point ID for each subsystem (m = 1 to 255)
Measuring point name	The name of the measuring point is displayed.
Unit	The unit of the measuring data is displayed.
Data style	The following are displayed: Analog : Analog data (including demand) Pulse : Pulse data Status : ON/OFF status Power factor : Power factor data

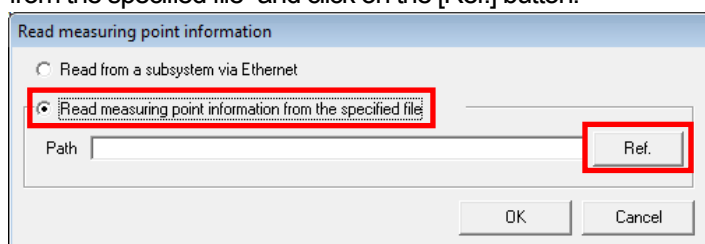
(b) When reading from the setting file of the measuring point information

You must acquire and save the setting file of the measuring point information from the subsystem in advance.
For the procedure, refer to the user manual of the subsystem.

(i) Click on the [Update measuring point] button.

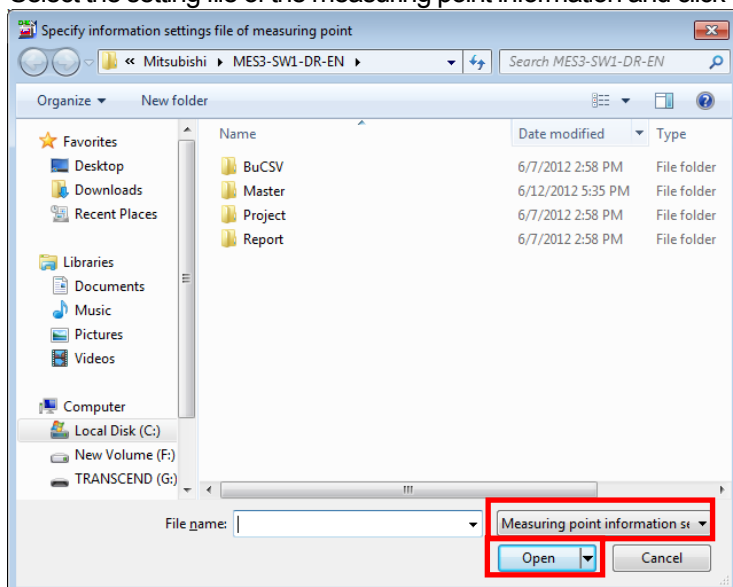


(ii) The [Read measuring point information] screen is displayed. Select "Read measuring point information from the specified file" and click on the [Ref.] button.



(iii) The dialog for specifying the file will be displayed.

Select the setting file of the measuring point information and click on the [Open] button.



The name of the setting file of the measuring point information varies depending on the subsystem.

EcoWebServer III: eecodata.dat

(iv) The path to the selected file is shown in the [Read measuring point information] screen. Click on the [OK] button.

The confirmation message will be displayed. Follow the message instructions and continue the operation.

(v) The updated information of the measuring point is displayed in the [Subsystem setting] screen.

ID	Measuring point name	Unit	Data type
P1K1	Energy1	kWh	Pulse
P1K2	Current1	A	Analog
P1K3	Voltage1	V	Analog
P1K4	Power factor1	%	Power factor
P1K5	Leakage current1	mA	Analog
P1K6	Count1	Piece	Pulse
P1K7	Count2	Piece	Pulse
P1K9	Energy3	kWh	Pulse
P1K10	Energy4	kWh	Pulse

[Displayed contents of the measuring point list]

Item	Details
ID	The ID of the measuring is displayed in "PnKm" format. Pn : Project ID (n = 1 to 2) Km : Measuring point ID for each subsystem (m = 1 to 255)
Measuring point name	The name of the measuring point is displayed.
Unit	The unit of the measuring data is displayed.
Data style	The following are displayed: Analog : Analog data (including demand) Pulse : Pulse data Status : ON/OFF status Power factor : Power factor data

- (5) When the updating of the measuring point information is completed, click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

Subsystem setting

Project ID: P1

Project name: Factory A

IP address: 192.168.10.2

ID	Measuring point name	Unit	Data type
P1K1	Energy1	kWh	Pulse
P1K2	Current1	A	Analog
P1K3	Voltage1	V	Analog
P1K4	Power factor1	%	Power factor
P1K5	Leakage current1	mA	Analog
P1K6	Count1	Piece	Pulse
P1K7	Count2	Piece	Pulse
P1K9	Energy3	kWh	Pulse
P1K10	Energy4	kWh	Pulse

Update measuring point

OK Cancel

- * You can register the project by clicking on the [OK] button even when no measuring point list has been registered. However, the message shown on the right will be displayed when the data is acquired from the subsystem. In such a case, update the measuring point information first and then acquire the data again.

Daily Monthly Report Software

Can not connect to the subsystem.
Project ID:P2
Project Name:Factory
IP Address:192.168.10.1

Retry Cancel

- (6) The details of the specified project are displayed in the [Subsystems list] screen. Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

Subsystems list

ID	Project name	IP address
P1	Factory A	192.168.10.2
P2		

Edit Delete

OK Cancel

- (7) The configured settings are saved in the setting file and the main menu screen reappears.

Caution

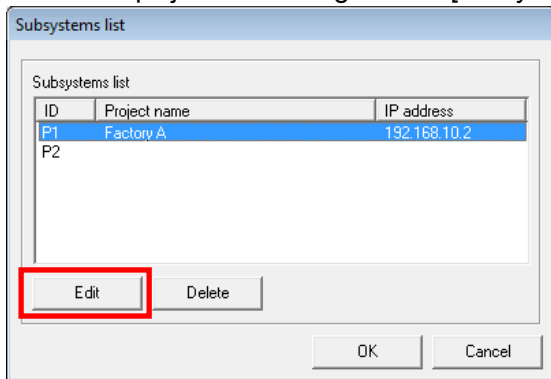
When you change the setting and click on the [Cancel] button in the [Subsystems list] screen before saving the change to the setting file, note that all the changed contents will be abandoned.

4.1.2 Changing the project

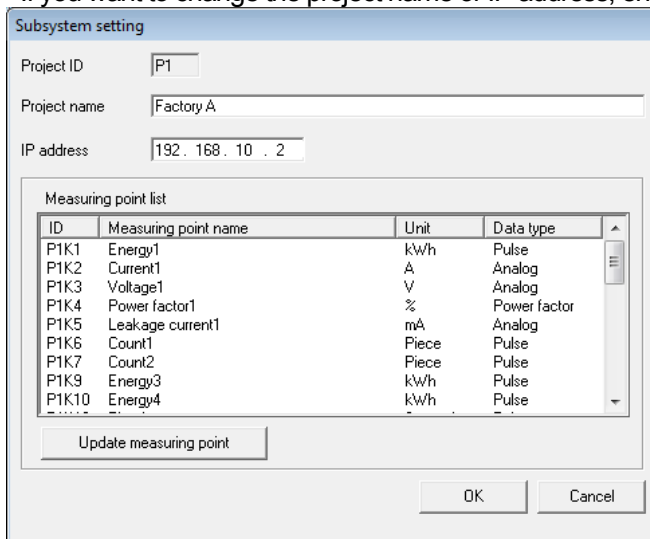
This item changes the IP address of the project already set or updates the measuring point information.

- * If the measuring point used in the virtual measuring point, specific consumption, or report has been deleted on the subsystem side, delete the corresponding measuring point from the virtual measuring point, specific consumption, or report before updating the measuring point information.

- (1) Select the project to be changed in the [Subsystems list] screen and click on the [Edit] button.



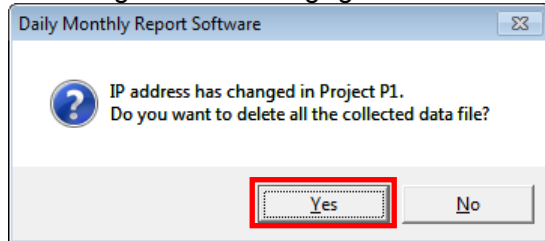
- (2) The [Subsystem setting] screen is displayed.
If you want to change the project name or IP address, enter the new setting.



Caution

For updating the measuring point information read from the subsystem via the LAN, refer to the procedure for updating the measuring point information described in “4.1.1 Registering the project.”

- (3) The confirmation message shown below is displayed when the IP address of the project has been changed. If you want to delete all the logging files already collected, such as in the case that the connected device has been changed, click on the [Yes] button. If you do not want to delete the logging file already collected, such as in the case that only the IP address has been changed without changing the connected device, click on the [No] button.



- (4) The setting contents are saved in the setting file and the main menu screen reappears.

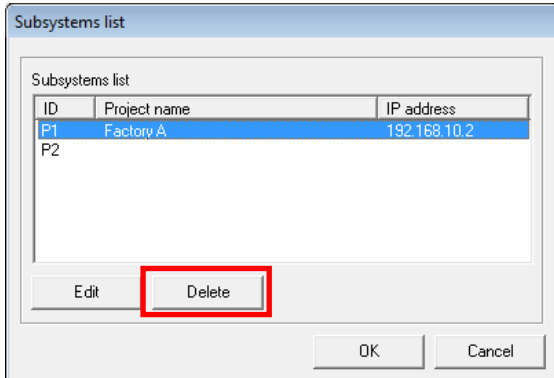
Caution

When you change the setting and click on the [Cancel] button in the [Subsystems list] screen before saving the change to the setting file, note that all the changed contents will be abandoned.

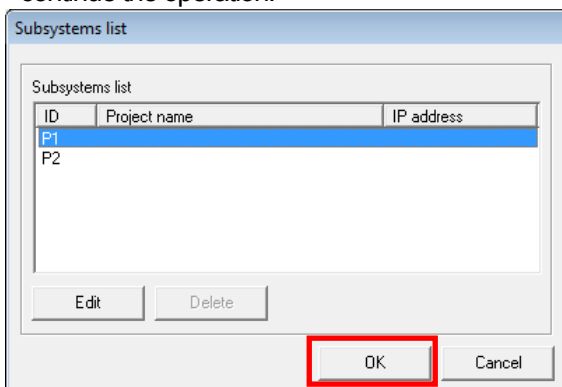
4.1.3 Deleting the project

This item deletes the project that is already set.

- (1) Select the project to be deleted in the [Subsystems list] screen and click on the [Delete] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.



- (2) The selected project is deleted from the [Subsystems list] screen. Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.



- (3) The configured settings are saved in the setting file and the main menu screen reappears.

You cannot delete the project when its measuring point is used in the virtual measuring point, specific consumption, or report. Before deleting such project, delete the relevant measuring point from the virtual measuring point, specific consumption, or report.

4.2 Virtual measuring point setting

This item sets the virtual measuring point and virtual measuring point group to be used in the report.

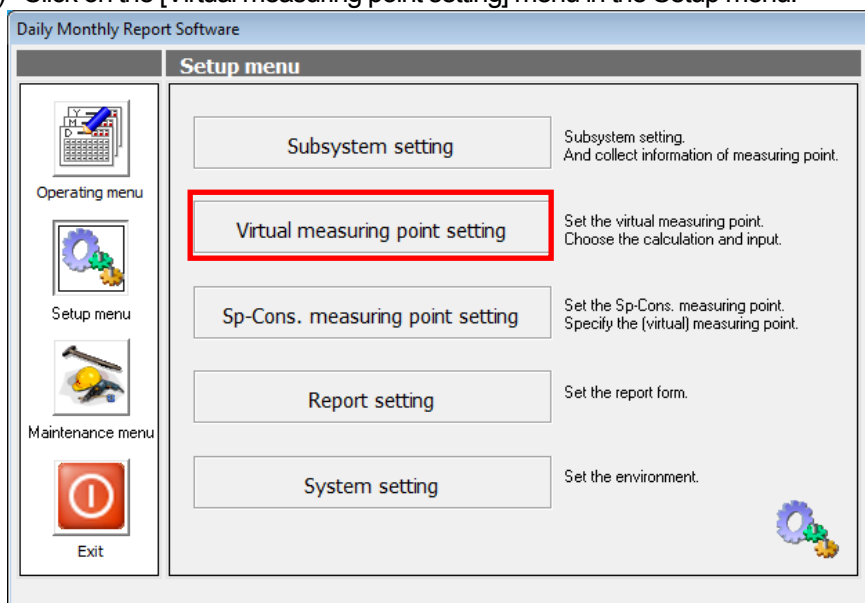
Name		Details
Virtual measuring point ^{*1}		Measuring point which treats the calculation result of the measuring point or manually entered data as the virtual measuring data.
	Virtual measuring point for calculation	Used for the calculation of the measuring point
	Virtual measuring point for entry	Used for manually entering the production quantity of the specific consumption, etc.
Virtual measuring point group ^{*2}		Measuring point which treats the calculation result of the virtual measuring point as the virtual measuring data.

* 1: Up to 95 virtual measuring points can be registered.

* 2: Up to 5 virtual measuring point groups can be registered. Virtual measuring point for entry cannot be specified.

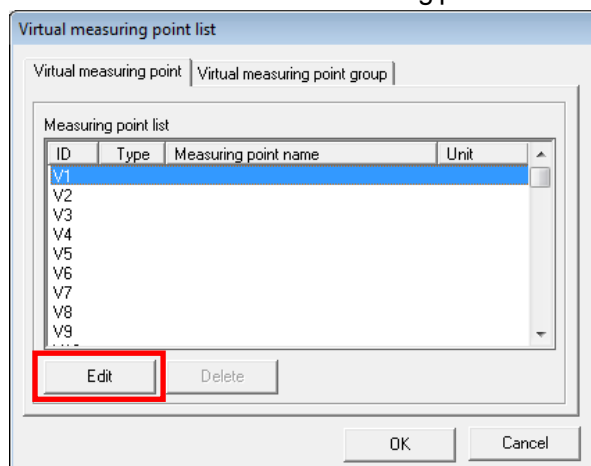
4.2.1 Virtual measuring point setting

(1) Click on the [Virtual measuring point setting] menu in the Setup menu.



(2) The [Virtual measuring point list] screen is displayed.

Select the ID of the virtual measuring point to be set and click on the [Edit] button.



- (3) The [Virtual measuring point] screen is displayed.
Set each item.

Virtual measuring point

ID(Virtual.) ☒ Calculation ☐ Input

Name(Virtual.)

Unit

Arithmetic exp.

To enter the arithmetic expression, please use the following

Measuring point list

ID	Measuring point name	Unit
P1K1	Energy1	kWh
P1K2	Current1	A
P1K3	Voltage1	V
P1K4	Power factor1	%
P1K5	Leakage current1	mA
P1K6	Count1	Piece
P1K7	Count2	Piece
P1K9	Energy3	kWh
P1K10	Energy4	kWh

Select

1 2 3 4 5 6 7 8 9

0 / * - + () . Clear

OK Cancel

Item	Details
Type	Select "Calculation" or "Input."
Measuring point name	Enter the name of the measuring point. Up to 32 characters can be entered.
Unit	Enter the unit. Up to 8 characters can be entered.
Arithmetic expression	Enter the arithmetic expression. Up to 1024 characters can be entered. Numerical values, parentheses, and operators can be entered also using the buttons in the screen. Select the measuring point in the measuring point list and click on the [Select] button to add the measuring point ID to the arithmetic expression. You cannot use this item when the type is set to "Input"

[The format of arithmetic expression]

Item	Details
Items can be set	Measuring point ID, numerical values, parentheses, and operators
Measuring point ID	Only the registered measuring points (P1K1 to P2K255)
Numerical values	Up to 6 digits for the integer part and 5 digits for the decimal part (0 to 999999.99999)
Parentheses	Up to 16 layers of parentheses can be set.
Operators	Four arithmetic operations (+, -, *, /)
Number of operands	1 to 64

The number of operands in "(P1K1 + P1K2 + P1K3)*0.473" is 4.

Do not perform multiplications or divisions between measuring points.

(Example: P1K1*P1K2, P1K1/P1K2, etc.)

- (4) Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

Virtual measuring point

ID(Virtual.) ☒ Calculation ☐ Input

Name(Virtual.)

Unit

Arithmetic exp.

To enter the arithmetic expression, please use the following

Measuring point list

ID	Measuring point name	Unit
P1K1	Energy1	kWh
P1K2	Current1	A
P1K3	Voltage1	V
P1K4	Power factor1	%
P1K5	Leakage current1	mA
P1K6	Count1	Piece
P1K7	Count2	Piece
P1K9	Energy3	kWh
P1K10	Energy4	kWh

Select

1 2 3 4 5 6 7 8 9

0 / * - + () . Clear

OK Cancel

- (5) The details of the virtual measuring point set are displayed in the [Virtual measuring point list] screen. Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

Virtual measuring point list

Virtual measuring point | Virtual measuring point group

Measuring point list

ID	Type	Measuring point name	Unit
V1	Calc.	Facilities 1	kWh
V2			
V3			
V4			
V5			
V6			
V7			
V8			
V9			

Edit Delete

OK Cancel

- (6) The configured settings are saved in the setting file and the main menu screen reappears.

Note that all the changes you made will be cancelled if the [Cancel] button in the [Virtual measuring point list] screen is clicked before they are saved in the setting file.

4.2.2 Setting the virtual measuring point group

- (1) Display the “Virtual measuring point group” tab in the [Virtual measuring point list] screen.
Select the ID of the virtual measuring point group to be set and click on the [Edit] button.

Virtual measuring point list

Virtual measuring point **Virtual measuring point group**

Measuring point list

ID	Measuring point name	Unit
G1	Group 1	kWh
G2	Group 2	Piece
G3	Group 3	kWh
G4		
G5		

Edit Delete

OK Cancel

- (2) The [Virtual measuring point] screen is displayed.
Set each item.

Virtual measuring point

ID(Virtual.) G1

Name(Virtual.) Group 1

Unit kWh

Arithmetic exp. V1+V2

To enter the arithmetic expression, please use the following

Measuring point list

ID	Measuring point name	Unit
V1	Facilities 1	kWh
V2	Facilities 2	kWh

Select

1 2 3 4 5 6 7 8 9

0 / * - + () . Clear

OK Cancel

Item	Details
Virtual measuring point name	Enter the name of the virtual measuring point group. Up to 32 characters can be entered.
Unit	Enter the unit. Up to 8 characters can be entered.
Arithmetic expression	Enter the arithmetic expression. Up to 1024 characters (single-byte only) can be entered. Operators (+, - only) can be entered also from the buttons on the screen. Select the measuring point in the measuring point list and click on the [Select] button to add the measuring point ID to the arithmetic expression. Virtual measuring point for entry cannot be set.

[The format of arithmetic expressions]

Item	Details
Items can be set	Measuring point ID and operators
Measuring point ID	Registered virtual measuring point for calculation only (V1 - V95)
Numerical values	×: Cannot be set
Parentheses	×: Cannot be set
Operators	Only addition and subtraction (+, -)
Number of operands	1 to 32

- (3) Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

Virtual measuring point

ID(Virtual.)

Name(Virtual.)

Unit

Arithmetic exp.

To enter the arithmetic expression, please use the following

Measuring point list

ID	Measuring point name	Unit
V1	Facilities 1	kWh
V2	Facilities 2	kWh

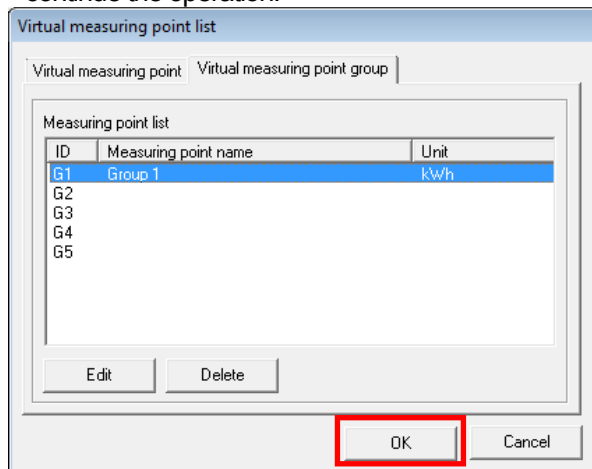
Select

1 2 3 4 5 6 7 8 9

0 / * - + () . Clear

OK Cancel

- (4) The details of the virtual measuring point groups set are displayed on the [Virtual measuring point list] screen. Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

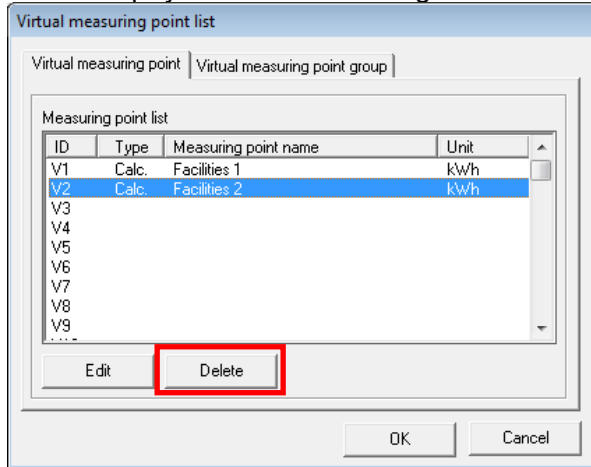


- (5) The configured settings are saved in the setting file and the main menu screen reappears.

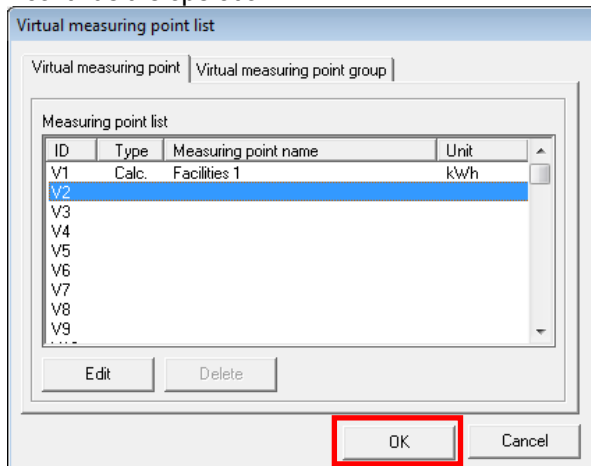
Note that all the changes you made will be cancelled if the [Cancel] button in the [Virtual measuring point list] screen is clicked before they are saved in the setting file.

4.2.3 Deleting the virtual measuring point

- (1) Display the “Virtual measuring point” tab in the [Virtual measuring point list] screen.
Select the virtual measuring point to be deleted and click on the [Delete] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.



- (2) The selected virtual measuring point is deleted from the [Virtual measuring point list] screen.
Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

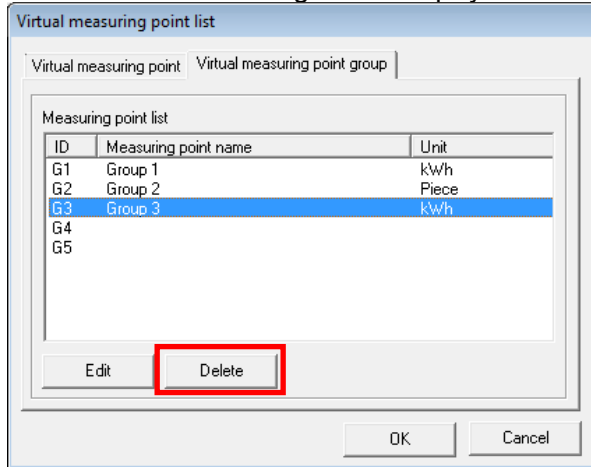


- (3) The configured settings are saved in the setting file and the main menu screen reappears.

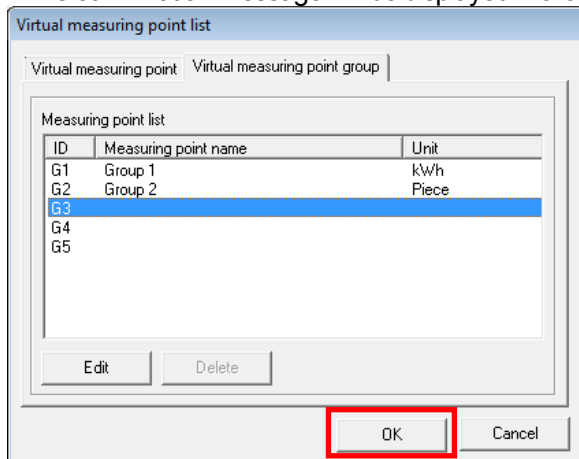
- * You cannot delete the virtual measuring point that is used in the virtual measuring point group, specific consumption, or report. Before deleting such point, delete the relevant virtual measuring point from the virtual measuring point group, specific consumption, or report.

4.2.4 Deleting the virtual measuring point group

- (1) Display the “Virtual measuring point group” tab in the [Virtual measuring point list] screen.
Select the virtual measuring point group to be deleted and click on the [Delete] button.
The confirmation message will be displayed. Follow the message instructions and continue the operation.



- (2) The selected virtual measuring point group is deleted from the [Virtual measuring point list] screen.
Click on the [OK] button.
The confirmation message will be displayed. Follow the message instructions and continue the operation.



- (3) The configured settings are saved in the setting file and the main menu screen reappears.

* You cannot delete the virtual measuring group that is used in the specific consumption or report. Before deleting such group, delete the relevant virtual measuring point from the specific consumption or report.

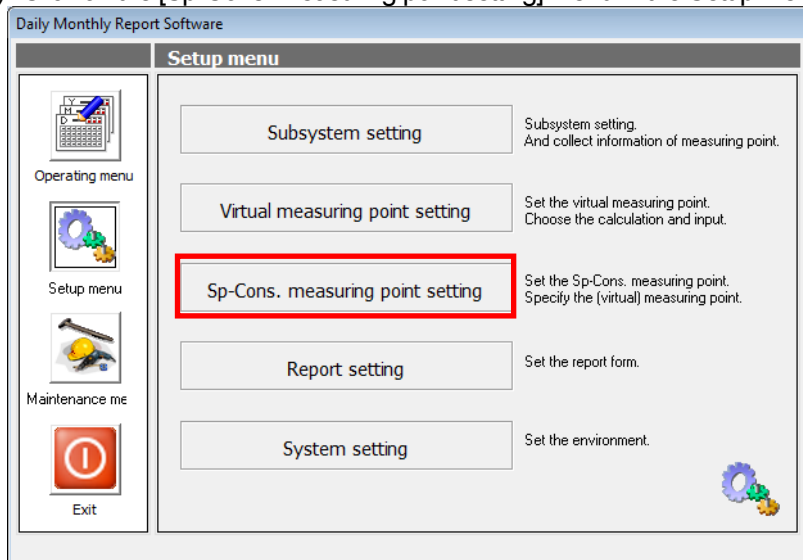
4.3 Specific consumption setting

This item sets the specific consumption to be used in the report.

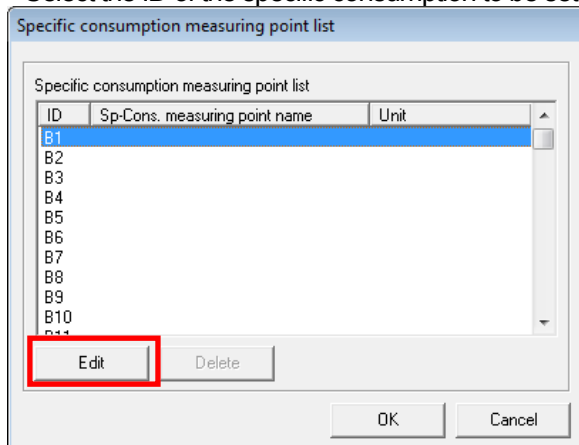
- * Up to 100 points can be set for the specific consumption.

4.3.1 Setting the specific consumption

- (1) Click on the [Sp-Cons. measuring point setting] menu in the Setup menu.



- (2) The [Specific consumption measuring point list] screen is displayed.
Select the ID of the specific consumption to be set and click on the [Edit] button.



- (3) The [Specific consumption measuring point] screen is displayed.
Set each item.

Specific consumption measuring point

ID(Sp-Cons.)

B1

Name(Sp-Cons.)

Facilities 1 unit consumption

Energy amount(Numerator)

Item name

Facilities 1 Energy

Unit

kWh

Ref. data

V1

...

Facilities 1

Production(Denominator)

Item name

Count1

Unit

Piece

Ref. data

P1K6

...

Count1

OK

Cancel

Item	Details
Specific consumption measuring point name	Enter the name of the specific consumption. Up to 32 characters can be entered.
Item name	Enter the name of the item of the amount of energy and the production quantity. Up to 32 characters can be entered.
Unit	Enter the units of the amount of energy and the production quantity. Up to 8 characters can be entered.
Reference data	Select the data to be used as the amount of energy and the production quantity.

[Selection of the reference data]

Click on the [...] button next to the reference data field and the [Reference data] screen will be displayed.

Specific consumption measuring point

ID(Sp-Cons.) B1

Name(Sp-Cons.)

Energy amount(Numerator)

Item name

Unit

Ref. data

Production(Denominator)

Item name

Unit

Ref. data

OK Cancel

Reference data

Please select the reference data.

Ref. data ☒ Measuring point ☐ Virtual ☐ Virtual group

ID	Name	Unit
P1K1	Energy1	kWh
P1K2	Current1	A
P1K3	Voltage1	V
P1K4	Power factor1	%
P1K5	Leakage current1	mA
P1K6	Count1	Piece
P1K7	Count2	Piece
P1K9	Energy3	kWh
P1K10	Energy4	kWh

OK Cancel

Select the measuring point from the list and click on the [OK] button. The selected point will be set for the item name, unit, and reference data (ID and name) in the [Specific consumption measuring point] screen.

Reference data

Please select the reference data.

Ref. data ☐ Measuring point ☒ Virtual ☐ Virtual group

ID	Type	Name	Unit
V1	Calc.	Facilities 1	kWh
V2	Calc.	Facilities 2	kWh

OK Cancel

Specific consumption measuring point

ID(Sp-Cons.) B1

Name(Sp-Cons.)

Energy amount(Numerator)

Item name Facilities 1

Unit kWh

Ref. data V1

Production(Denominator)

Item name

Unit

Ref. data

OK Cancel

To change the item name or unit, select the reference data first and then make the changes.

If the reference data is selected again after changing the item name or unit, the changes you made will be overwritten with the item name and unit of the reference data.

- (4) Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

Specific consumption measuring point

ID(Sp-Cons.) B1

Name(Sp-Cons.) Facilities 1 unit consumption

Energy amount(Numerator)

Item name Facilities 1

Unit kWh

Ref. data V1 ... Facilities 1

Production(Denominator)

Item name Count1

Unit Piece

Ref. data P1K6 ... Count1

OK Cancel

- (5) The setting details of the specific consumption are displayed in the [Specific consumption measuring point list] screen.

Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

Specific consumption measuring point list

ID	Sp-Cons. measuring point name	Unit
B1	Facilities 1 unit consumption	kWh/Piece
B2		
B3		
B4		
B5		
B6		
B7		
B8		
B9		
B10		
B11		

Edit Delete

OK Cancel

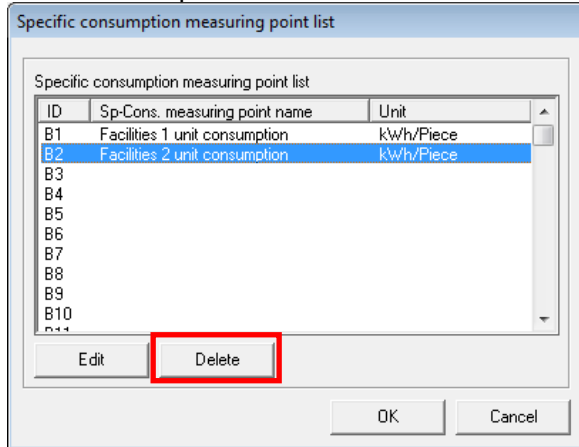
- (6) The configured settings are saved in the setting file and the main menu screen reappears.

Caution

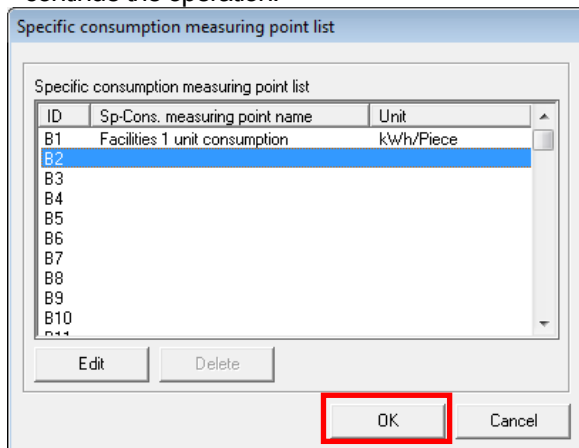
All the changes you made will be cancelled if the [Cancel] button in the [Specific consumption measuring point list] screen is clicked before they are saved in the setting file.

4.3.2 Deleting the specific consumption

- (1) Select the specific consumption to be deleted in the [Specific consumption measuring point list] screen and click on the [Delete] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.



- (2) The selected specific consumption is deleted from the [Specific consumption measuring point list] screen. Click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.



- (3) The configured settings are saved in the setting file and the main menu screen reappears.

You cannot delete the specific consumption when it is used in the report.
Before deleting such specific consumption, delete the relevant specific consumption from the report.

4.4 Report setting

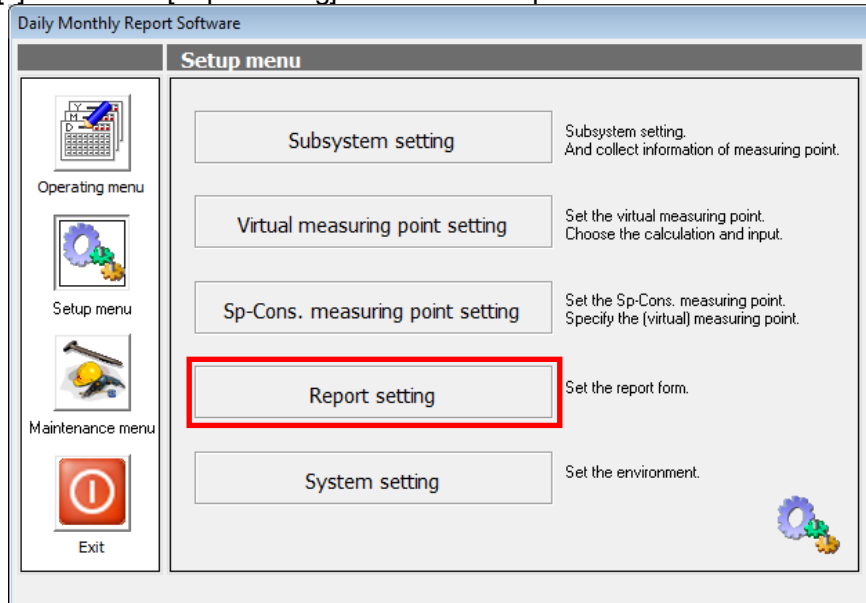
This item configures the settings for creating daily, monthly, or annual report.

4.4.1 Daily, monthly, and annual report settings

(1) Settings common to daily, monthly, and annual reports

This item configures the settings common to daily, monthly, and annual reports.

[1] Click on the [Report setting] menu in the Setup menu.



[2] The [Report form setting] screen is displayed.
Set each item.

Report form setting

Daily/Monthly/Annual | Daily | Monthly | Annual

Company

Field for probate

☒ Field1

☒ Field2

☒ Field3

☐ Field4

Analog value to the Monthly/Annual report(except the PF)

☒ Average ☐ Maximum ☐ Minimum

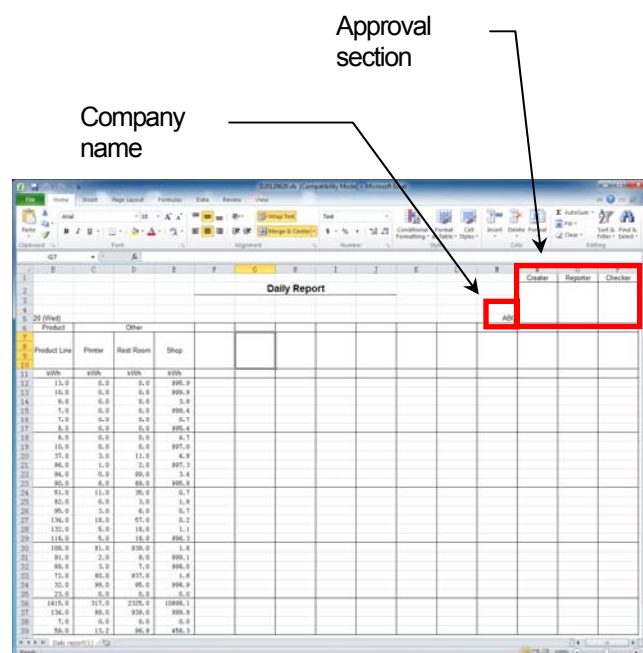
Power factor to the Monthly/Annual report

☒ Maximum ☐ Minimum

Comparison of the power factor(Daily/Monthly/Annual report)

☒ Absolute value ☐ -0% < 100% < 0%

OK Cancel



Item	Details
Company	Enter the company name to be output in the daily, monthly, or annual report. Up to 32 64 characters can be entered.
Field1 to 4	Only the approval sections with a check mark are output. Enter the headings to be output in the approval section. Up to 8 characters can be entered. You can enter the headings only for the approval sections with a check mark.
Analog value to the Monthly/Annual report (Except the PF)	Average value Maximum value Minimum value Select from 3 options shown on the left. * The demand value is treated as an analog value.
Power factor to the Monthly/Annual report	Maximum value Minimum value Select from 2 options shown on the left.
Comparison of the power factor (Daily/Monthly/Annual report)	Absolute value -0% < 100% < 0% Select from 2 options shown on the left.

When the method for comparing the power factor is set to the absolute value and there is any power factor value having the same absolute value (e.g. -99.5 % and 99.5 %), the value that is measured first is treated as the maximum or minimum value.

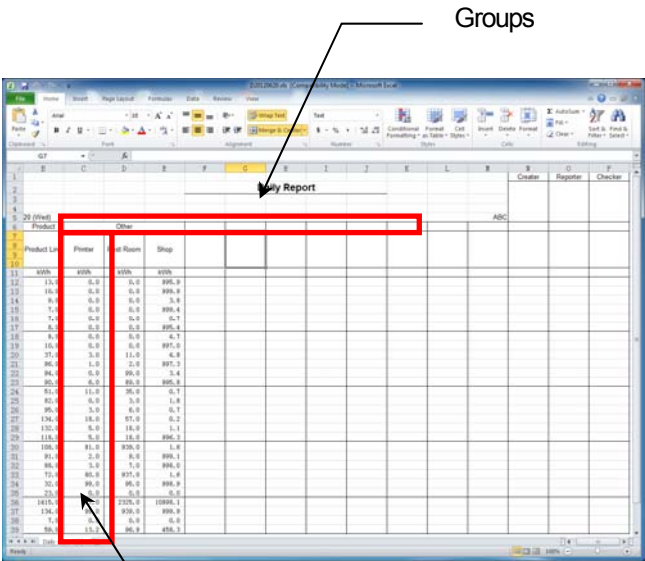
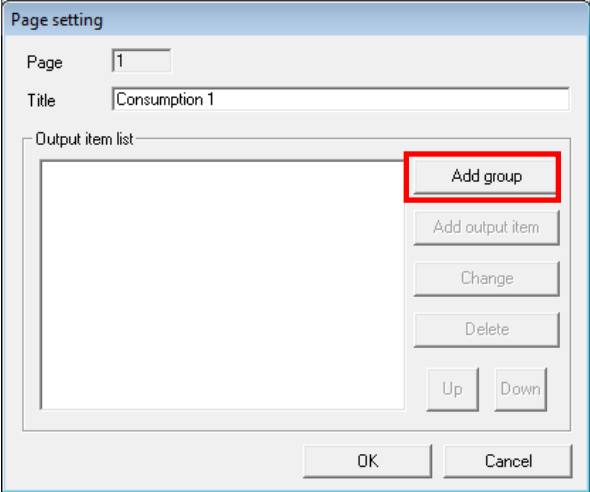
- (2) Daily report settings
This item sets the pages of the daily report.

[1] Display the “Daily” tab in the [Report form setting] screen.
Select the page to be set from the “Page list” and click on the [Edit] button.

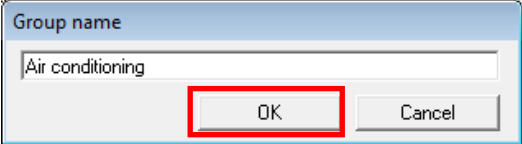
- [2] The [Page setting] screen is displayed.
Enter the title.

Item	Details
Title	Enter the title of the page. Up to 32 characters can be entered.

[1] Click on the [Add group] button.

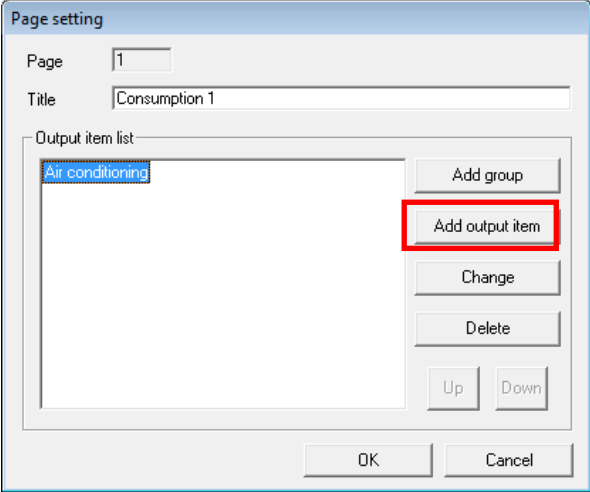


[2] The [Group name] screen is displayed.
Enter the group name and click on the [OK] button.



Item	Details
Group name	Enter the group name. Up to 32 characters can be entered.

[3] The specified group is displayed in the output item list in the [Page setting] screen.
Click on the [Add output item] button while the group is selected.



[4] The [Output items setting] screen is displayed.

First, click on the [...] button next to the reference data field.

Output items setting

Group name: Air conditioning

Item name:

Unit:

Ref. data: [...] (highlighted with a red box)

Decimal point: 0

Output daily, monthly, annual total: ☒ Output ☐ No output

OK Cancel

[5] The [Reference data] screen is displayed.

Select the measuring point to be output to the page and click on the [OK] button.

Reference data

Please select the reference data.

Ref. data: ☒ Measuring point ☐ Virtual ☐ Virtual group ☐ Sp-Cons.

ID	Name	Unit
P1K18	Current 1	A
P1K19	Voltage 1	V
P1K20	Electricity 1	kW
P1K21	Electric energy 1	kWh
P1K22	Current 2	A
P1K23	Voltage 2	V
P1K24	Electricity 2	kW
P1K25	Electric energy 2	kWh
P1K240	Contact outputF	

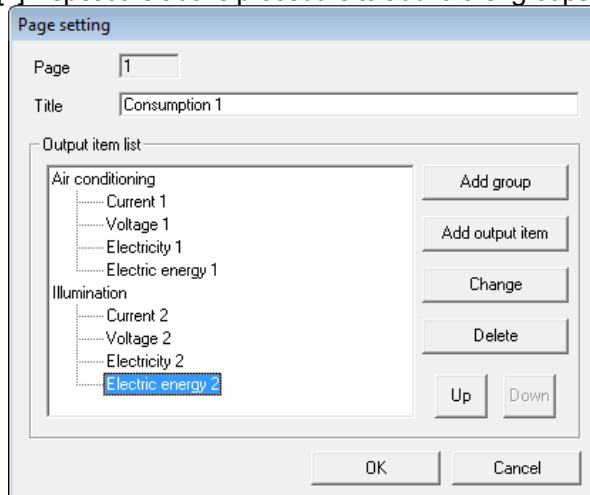
OK (highlighted with a red box) Cancel

- [6] The selected measuring point is displayed in the [Output items setting] screen.
Change each item as necessary and then click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation. The specified output item is displayed in the output item list in the [Page setting] screen.

The diagram illustrates the process of setting up output items. It starts with the 'Output items setting' dialog box, which contains fields for Group name (Air conditioning), Item name (Current 1), Unit (A), Ref. data (P1K18), and Decimal point (1). The 'Output daily,monthly,annual total' section has radio buttons for 'Output' (selected) and 'No output'. The 'OK' button is highlighted with a red box. An arrow points from the 'OK' button to the 'Page setting' dialog box. In the 'Page setting' dialog box, the 'Page' is 1, the 'Title' is 'Consumption 1', and the 'Output item list' shows 'Air conditioning' with 'Current 1' selected. The 'Page setting' dialog box also has buttons for 'Add group', 'Add output item', 'Change', 'Delete', 'Up', 'Down', 'OK', and 'Cancel'.

Item	Details
Item name	Enter the name of the item to be output to the report. Up to 32 characters can be entered.
Unit	Enter the unit to be output to the report. Up to 20 characters can be entered.
Decimal point	Select the number of digits after the decimal point used for the data output to the report. 0 to 5 digits
Output daily,monthly,annual total	Select whether or not to output the total value (daily total/monthly total/annual total) to the report when the reference data is set to the virtual measuring point or virtual measuring point group.

[7] Repeat the above procedure to add further groups and output items.



[8] To change the group or output item that is already set, select the desired group or output item and click on the [Change] button.

[9] To delete the group or output item that is already set, select the desired group or output item and click on the [Delete] button. When the group is deleted, all the output items in the group are also deleted.

[10] To change the order of the groups or output items that are already set, select the group or output item and click on the [Up] button or the [Down] button.

(a) Moving the output item

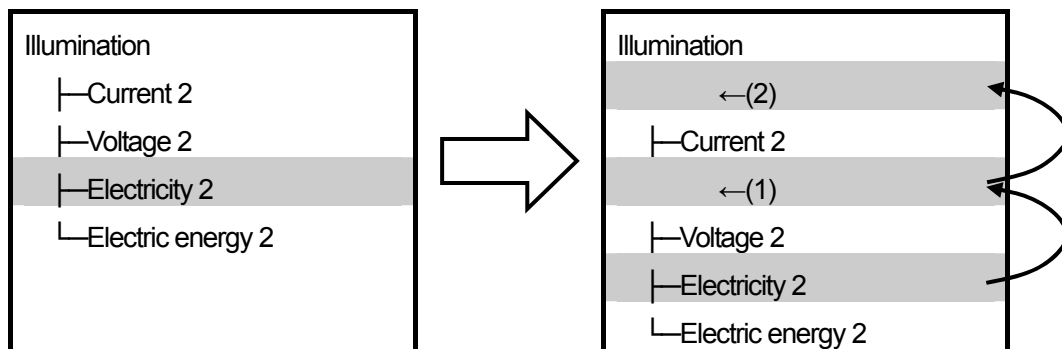
The order is changed in output item units.

You can move the output item across different groups.

[Example]

If "Electricity 2" is selected and the [Up] button clicked, it moves to the position (1).

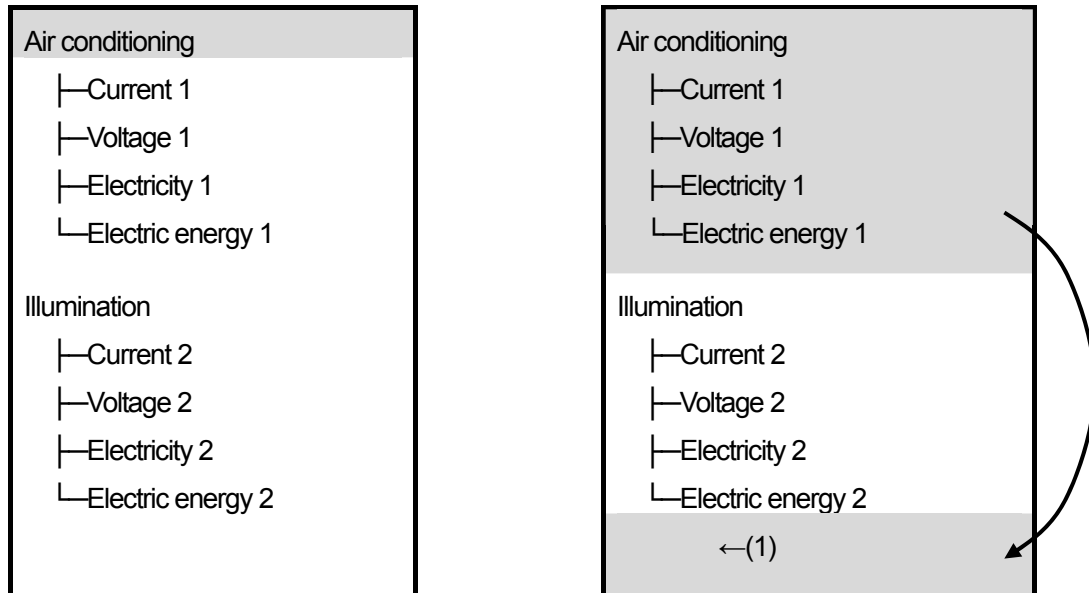
If the [Up] button is clicked again, it moves to the position (2).



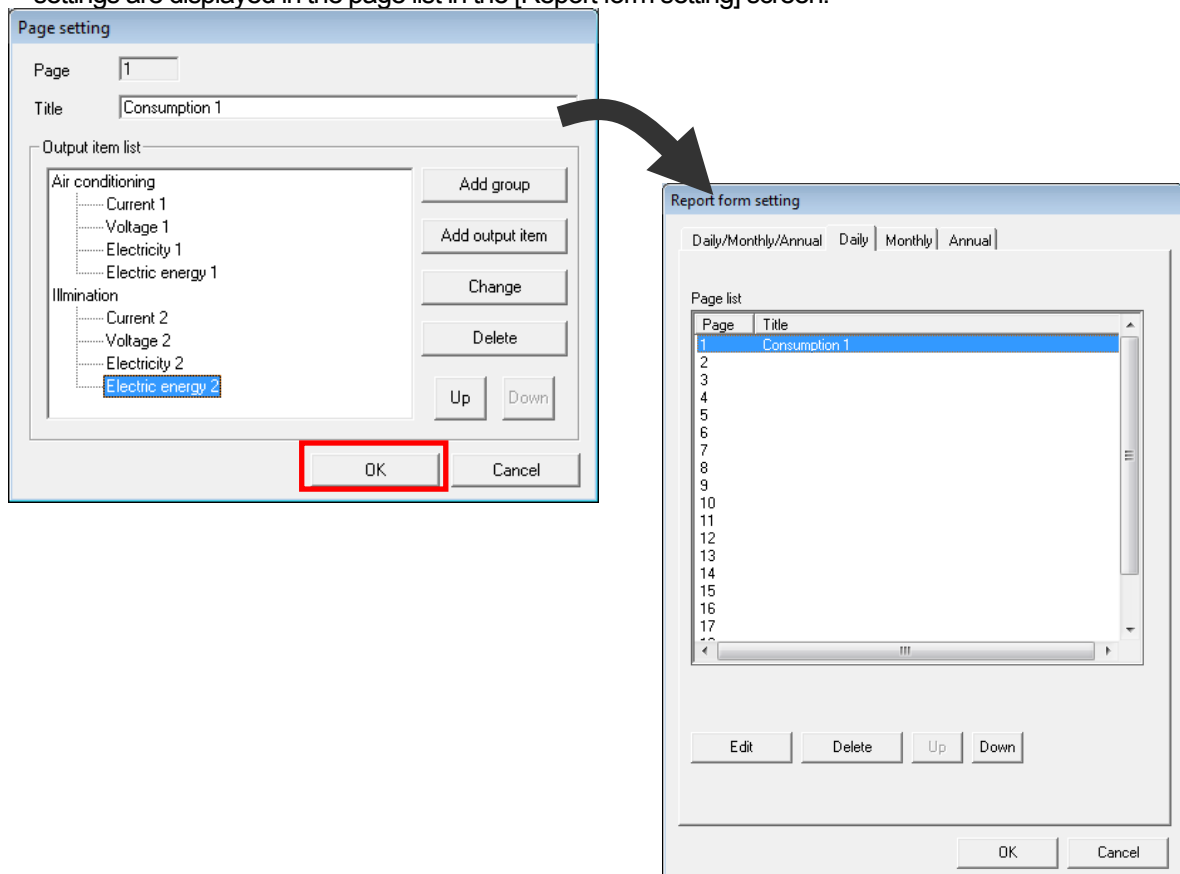
- (b) Moving the group
 The order is changed in group units.
 All the output items in the group are also moved.

[Example]

If "Air conditioning" is selected and the [Down] button clicked, the whole group moves to the position (1).



- [11] When the settings of the group and output item are completed, click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation. The configured settings are displayed in the page list in the [Report form setting] screen.

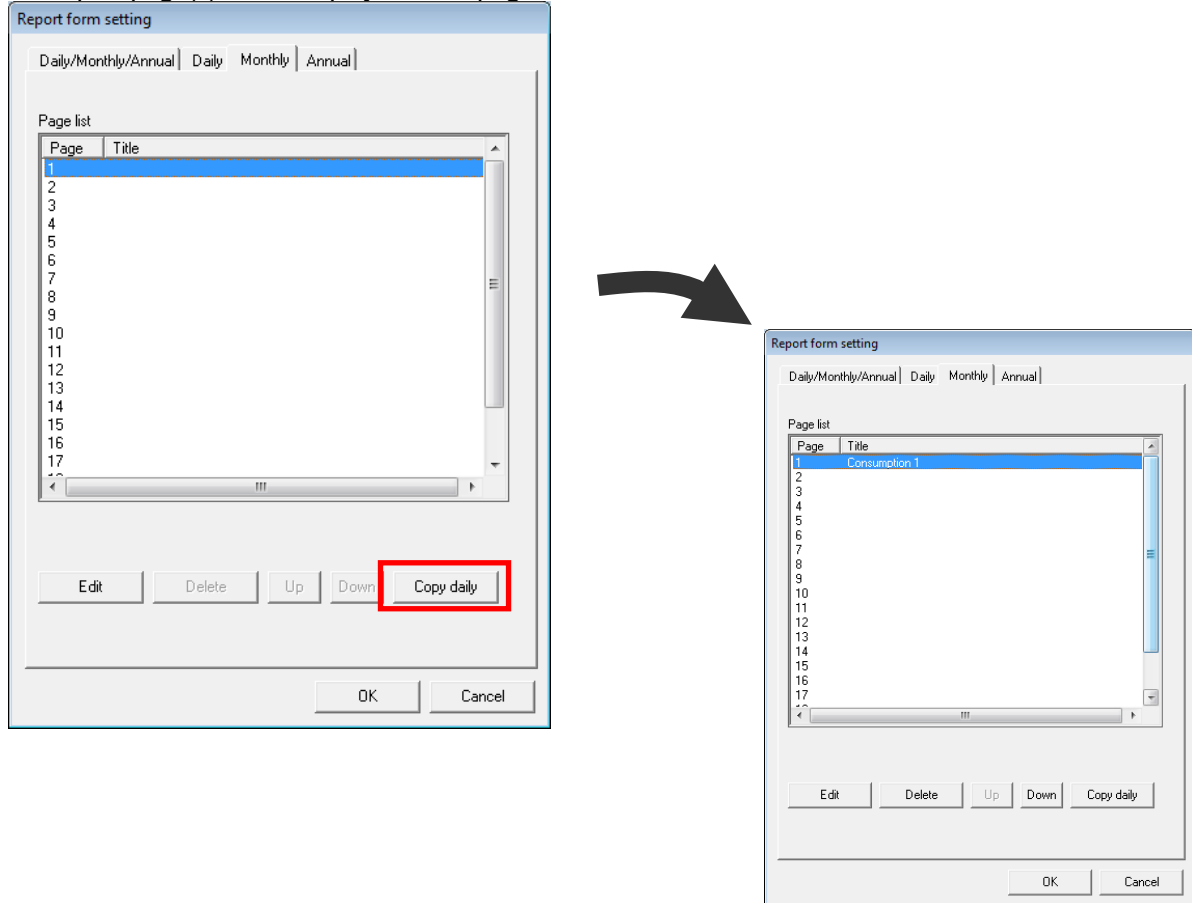


(3) Monthly report settings

This item sets the page for the monthly report.

Display the “Monthly” tab in the [Report form setting] screen.

To set the same page settings as those in the daily report, click on the [Copy daily] button and the details of the copied page(s) will be displayed in the page list..



- * To make the different settings from the daily report, refer to “(2) Daily report settings” and make the settings for each page.

Caution

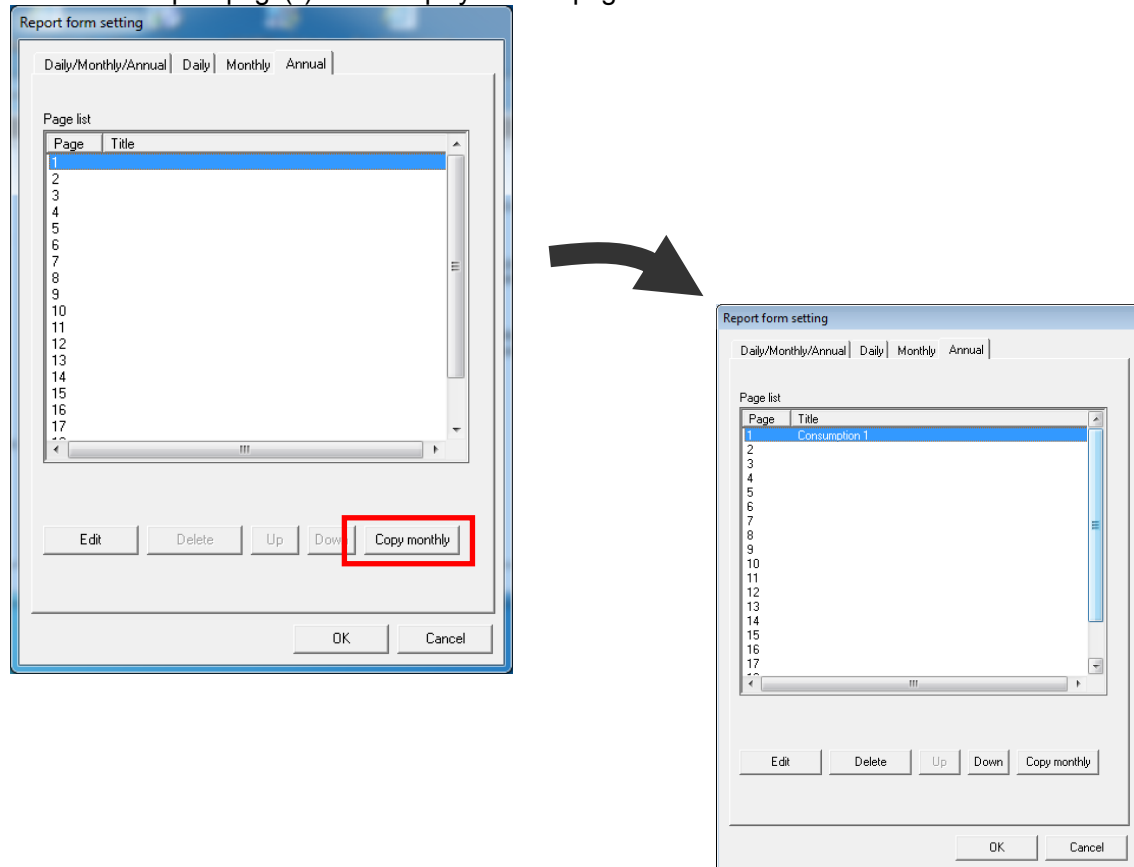
If you change the settings of the daily report after the copy has been made, these changes will not be reflected in the monthly report.
To reflect the changes made to the daily report in the monthly report, repeat the copy procedure again.

(4) Annual report settings

This item sets the page for the annual report.

Display the "" tab in the [Report form setting] screen.

To set the same page settings as those in the monthly report, click on the [Copy monthly] button and the details of the copied page(s) will be displayed in the page list..



- * To make the different settings from the monthly report, refer to "(2) Daily report settings" and make the settings for each page.

Caution

If you change the settings of the monthly report after the copy has been made, these changes will not be reflected in the annual report.
To reflect the changes made to the monthly report in the annual report, repeat the copy procedure again.

(5) Saving the setting data

This item saves the report settings to the setting file.

[1] Click on the [OK] button in the [Report form setting] screen. The confirmation message will be displayed. Follow the message instructions and continue the operation.

Report form setting

Daily/Monthly/Annual | Daily | Monthly | Annual

Company ABC

Field for probate

☒ Field1 Creator

☒ Field2 Reporter

☒ Field3 Checker

☐ Field4

Analog value to the Monthly/Annual report(except the PF)

☒ Average ☐ Maximum ☐ Minimum

Power factor to the Monthly/Annual report

☒ Maximum ☐ Minimum

Comparison of the power factor(Daily/Monthly/Annual report)

☒ Absolute value ☐ -0% < 100% < 0%

OK Cancel

Caution

All the changes you made will be cancelled if the [Cancel] button in the [Report form setting] screen is clicked before they are saved in the setting file.

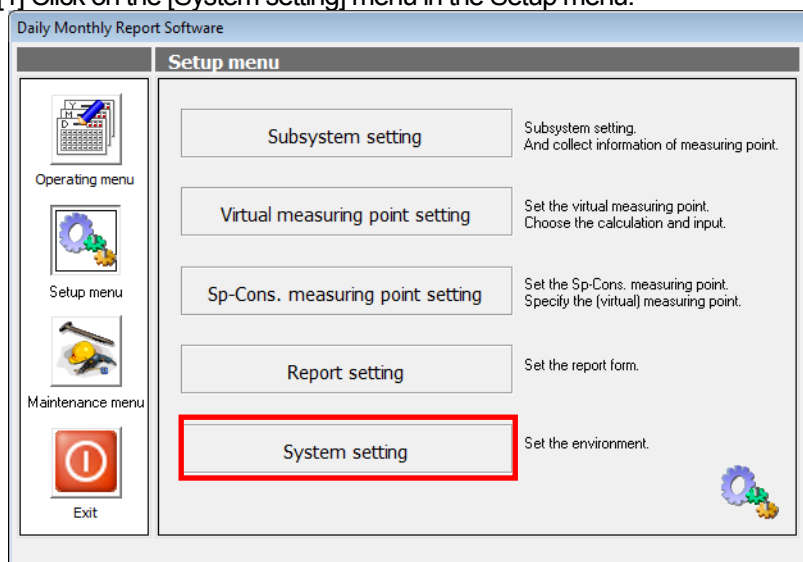
4.5 System setting

This item sets the usage environment of this software.

(1) Save path

This item sets the storage destination path for the report.

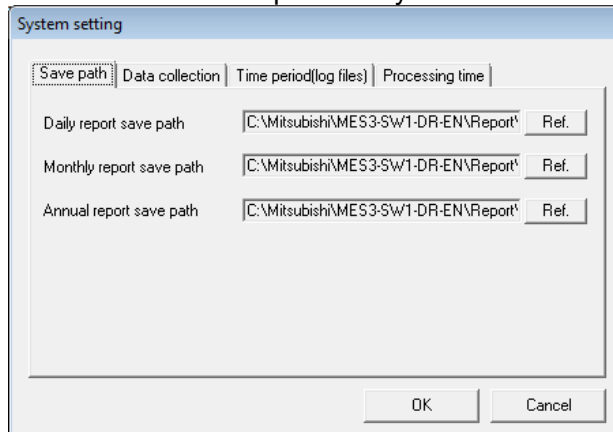
[1] Click on the [System setting] menu in the Setup menu.



[2] The [System setting] screen is displayed.

To change the storage destination path, click on the [Ref.] button and select a path.

You cannot enter the path directly.



Item	Details
Daily report save path	Set the storage destination path for the daily report file. Default: "C:\Mitsubishi\MES3-SW1-DR-EN\Report\Dreport"
Monthly report save path	Set the storage destination path for the monthly report file. Default: "C:\Mitsubishi\MES3-SW1-DR-EN\Report\Mreport"
Annual report save path	Set the storage destination path for the annual report file. Default: "C:\Mitsubishi\MES3-SW1-DR-EN\Report\Yreport"

- * The default storage destination paths shown above are the paths used when this software is installed at the default installation destination.

(2) Data collection

This item sets whether or not to automatically perform the data collection when this software is started up.

[1] Display the “Data collection” tab in the [System setting] screen.

Set each item.

The screenshot shows the 'System setting' dialog box with the 'Data collection' tab selected. It contains two main sections: 'Collect data at startup' and 'Connection'. In the first section, the 'Collect data at startup' checkbox is checked, and the 'Daily' frequency is selected. In the second section, the 'Connect in passive mode' checkbox is unchecked. The 'OK' and 'Cancel' buttons are located at the bottom right of the dialog.

Item	Details
Collect data at startup	Enter a check mark to perform the data collection when the software is started up. (*)
Connect in a passive mode	Enter a check mark when the software use FTP to connect in a passive mode.

- * When a check mark is added to Collect data at startup, a “Collecting the data” message shown on the right is displayed when the software is started up and data is collected from the subsystem.

This processing may take several minutes. Do not perform any operation other than cancel while this message is being displayed. Depending on the operating system being used, the application may end abnormally.

The screenshot shows the 'Data is being collecting' dialog box. It displays the following information: Project name: Factory A, IP address: 192.168.10.2, Path to log files: C:\Mitsubishi\MES3-SW1-DR-EN\Project\PT1\Day\120606.csv. The 'Processing status' section shows 'Collecting 120606.csv'. An 'Abort' button is located at the bottom right.

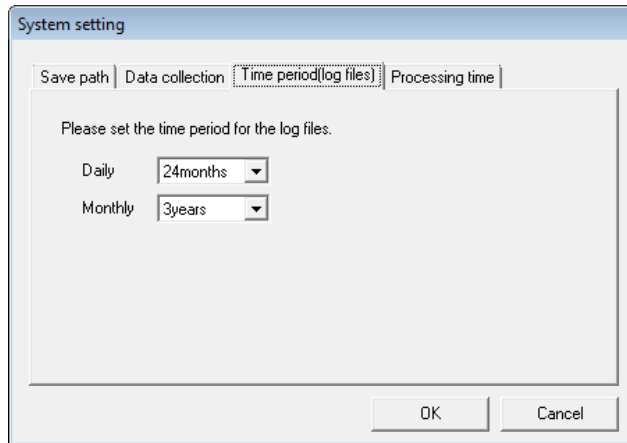
(3) Time period(log files)

This item sets the storage period of the collected logging files.

Files which have exceeded the storage period are deleted in order from the oldest file when the files are collected.

[1] Display the “Time period(log files)” tab in the [System setting] screen.

Set each item.



Item	Details
Daily	Set the storage period for the collected daily logging file. 1 to 36 months (Default: 24 months)
Monthly	Set the storage period for the collected monthly logging file. 1 to 5 years (Default: 3 years) * This storage period also applies to that of the monthly report CSV file.

(4) Processing time

This item sets the processing schedule (closing date and time) of the report.
Refer to the user manuals for each subsystem for checking the monthly logging time.

[1] Display the "Processing time" tab in the [System setting] screen.

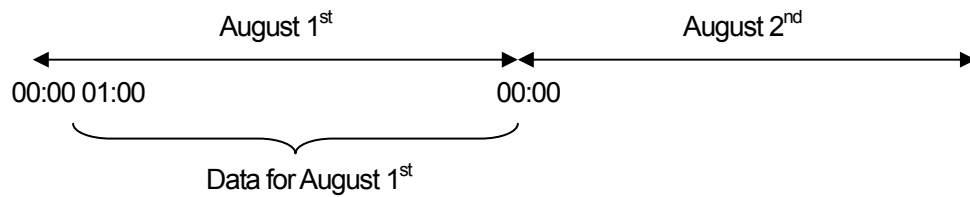
Set each item.

Item	Details
Processing time for daily report	Select the time to collect the daily data. 00:00 to 23:00 (Default: 00:00)
Processing time for monthly report	Select the date to collect the monthly data. 1 to 31 (Default: 31)
Processing month for annual report	Select the month to collect the annual data. January to December (Default: December)

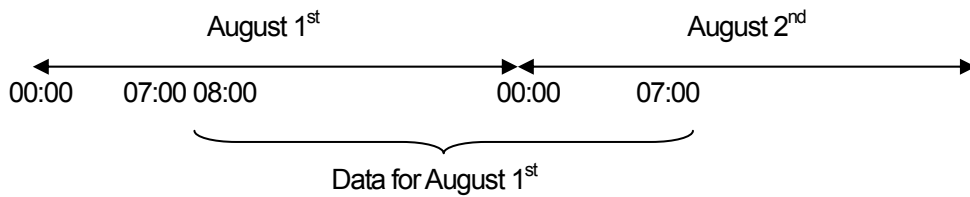
- * If the 31st is specified for the date to collect the monthly data, the processing is automatically performed on the last day (February 28, etc.) in the month having no 31st day.
- * If Processing time for monthly report / Processing month for annual report is changed, create the monthly/annual report again.

[Processing time for daily report]

Example) If 00:00 is set, the data from 01:00 on August 1st to 00:00 on the next day is output to the daily report as the data for August 1st.

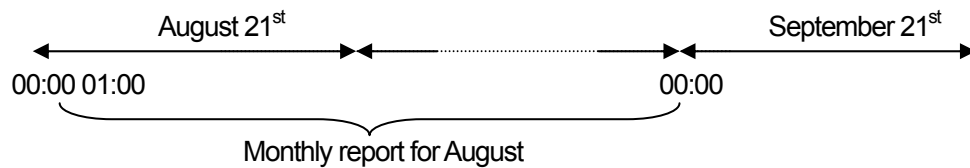


Example) If 07:00 is set, the data from 08:00 on August 1st to 07:00 on the next day is output to the daily report as the data for August 1st.



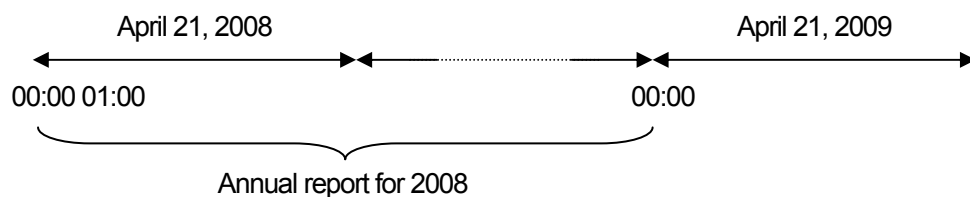
[Processing time for monthly report]

Example) If 20th is set (and the daily collection time is 00:00) and August is specified for the monthly report, the data from 01:00 on August 21st to 00:00 on September 21st is output to the monthly report.



[Processing month for annual report]

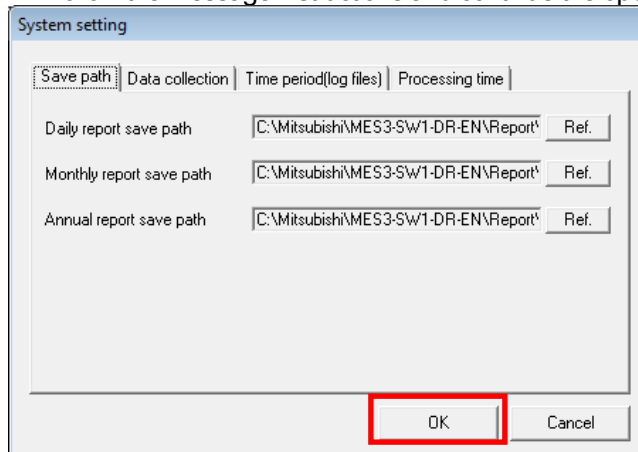
Example) If March is set (and the monthly processing is on 20th and daily processing is at 00:00) and 2008 is set for the compiling year for the annual report, the data from 01:00 on April 21, 2008 to 00:00 on April 21, 2009 is output to the annual report.



(5) Saving the setting data

This item saves the details of the system setting to the setting file.

- [1] Click on the [OK] button in the [System setting] screen. The confirmation message will be displayed.
Follow the message instructions and continue the operation.

**Caution**

All the changes you made will be cancelled if the [Cancel] button in the [System setting] screen is clicked before they are saved in the setting file.

CHAPTER 5 COLLECTING FUNCTION

This chapter explains the function for collecting the data from the subsystem.

5.1 Data collection

The logging files are collected from the subsystems via the LAN.

The collected logging files are stored at the logging file storage destination paths specified for each subsystem.

When the files are collected, the files which have exceeded their storage periods are deleted from the storage destination paths.

The data from the subsystem is collected based on the current time of the computer.

If the time of the subsystem is different to that of the computer, the collection of the latest logging file may fail.

Synchronize the time of the subsystem periodically with that of the computer.

(As a target, an error of the times should be 3 minutes or less.)

5.1.1 Data collection timing

The following shows the timing and target of the collection.

(1) When collecting the data manually

Manual collection is performed from the [Data Collection] menu in the operations menu.

The following are the target of the collection:

Subsystem	All the registered subsystems
File type	Daily

(2) When the software is started up

If you set the system setting of this software to collect the data at the start up, the data is collected automatically when this software is started up.

The following are the target of the collection:

Subsystem	All the registered subsystems
File type	Daily

(3) At the creation of the daily or monthly report (not of the annual report)

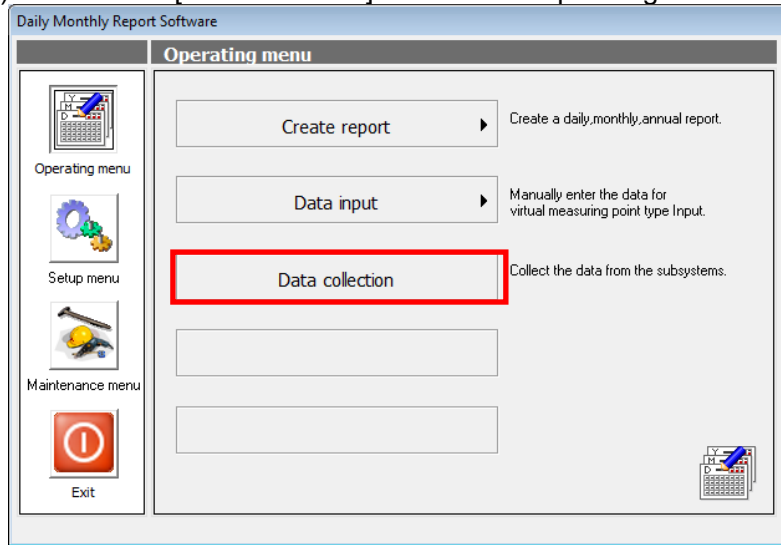
The necessary data is collected automatically when the daily or monthly report is created.

The following are the target of the collection:

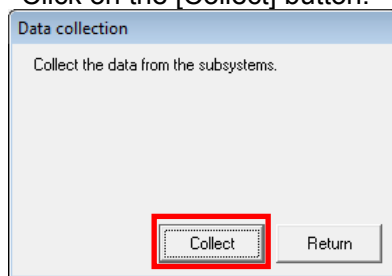
Subsystem	When creating the daily report: Only the subsystem necessary for the creation of the daily report When creating the monthly report: All the registered subsystems
File type	Daily

5.1.2 Manual data collection

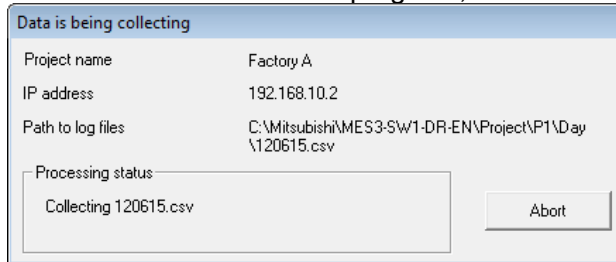
- (1) Click on the [Data collection] menu in the Operating menu.



- (2) The [Data collection] screen is displayed.
Click on the [Collect] button.

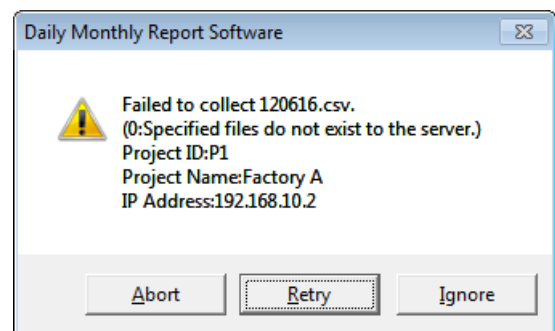


- (3) The [Data is being collecting] screen is displayed and the selected logging files are collected.
To cancel the collection in progress, click on the [Abort] button.

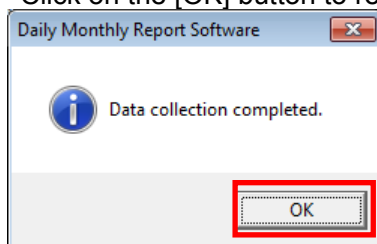
**Caution**

This processing may take several minutes. Do not perform any operation other than cancel while the message is being displayed.
Depending on the operating system being used, the application may end abnormally.

- * If there is no file of the specified date in the subsystem, the message as shown on the right will be displayed for each file.
If you know that the data does not exist in the subsystem, for example, because the power was cut off, click on the [Ignore] button and continue the data collection.



- (4) The message shown below will be displayed when the data collection is completed.
Click on the [OK] button to return to the [Data collection] screen.



When the data is collected for the first time, all the selected logging files which exist in the subsystem will be collected.

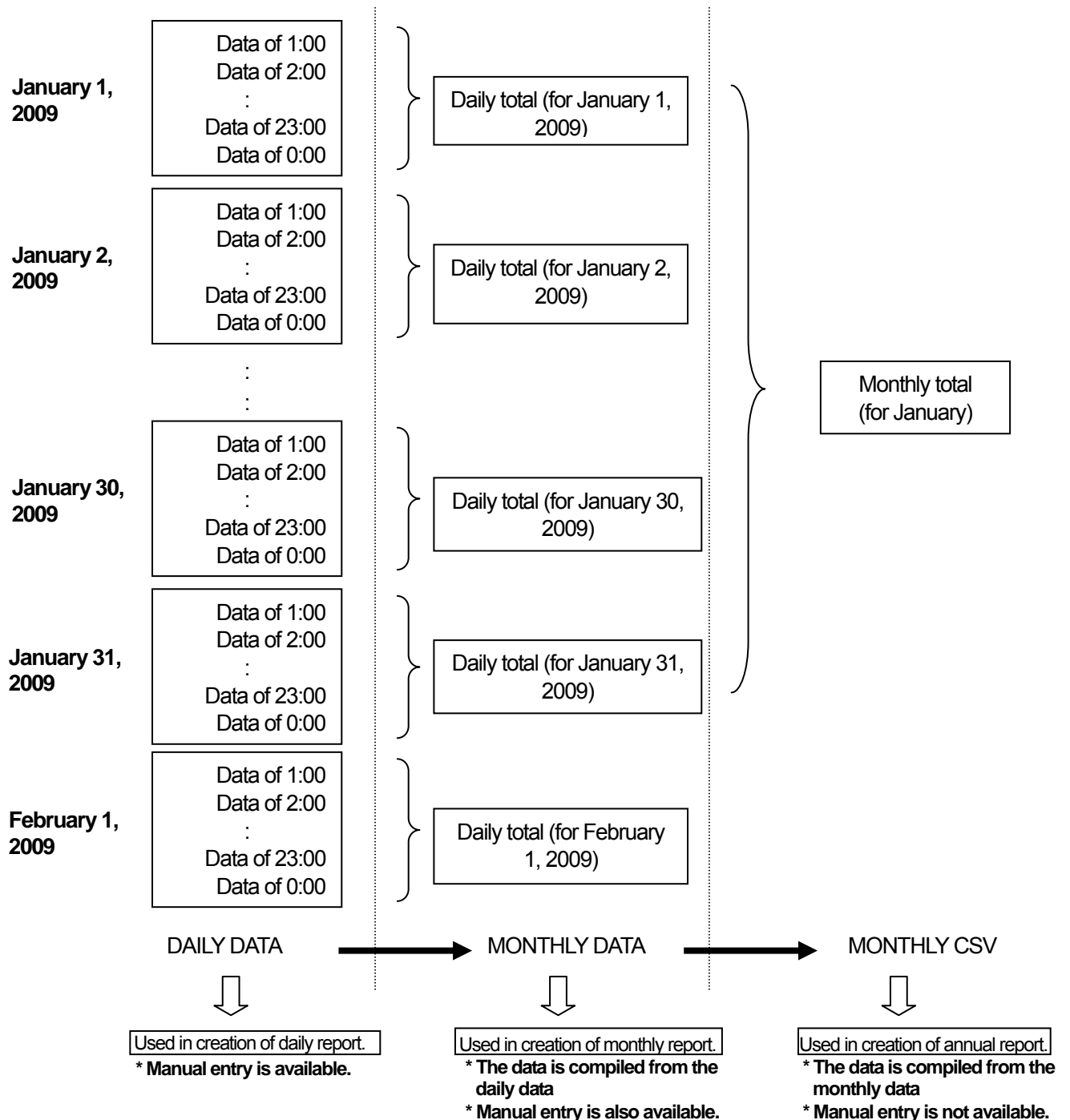
CHAPTER 6 ENTRY FUNCTION

6.1 Data entry

This item enters the daily or monthly data for the virtual measuring point for entry.

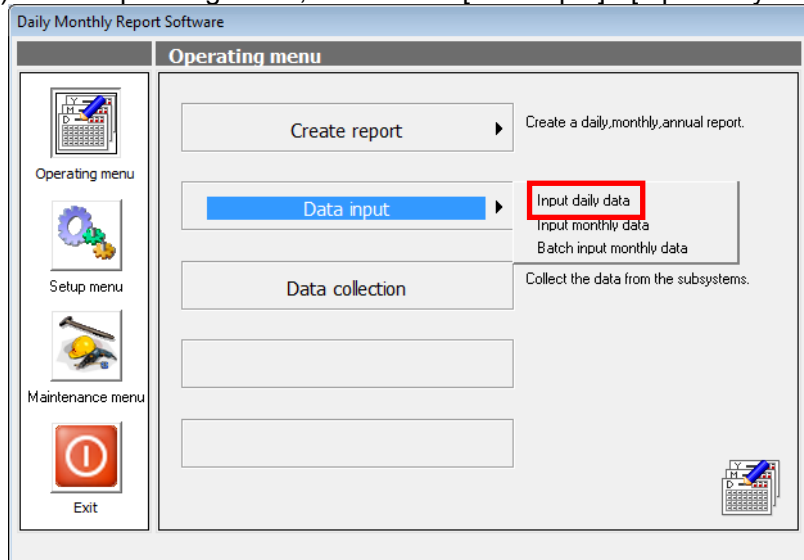
6.1.1 Outline of the data entry

There are three types of data; daily, monthly, and annual. Only the daily and monthly data can be entered.



6.1.2 Input the daily data

- (1) In the Operating menu, click on the [Data input] - [Input daily data] menu.



- (2) The [Input daily data] screen is displayed.
Select the name of the measuring point and the date, and then enter the data.

The 'Input daily data' dialog box is shown. It has a title bar 'Input daily data'. Inside, there are three input fields: 'Name' with a dropdown menu showing 'Facilities 3', 'Unit' with a text box containing 'Piece', and 'Date' with a dropdown menu showing '2012/6/15'. Below these is a section titled 'Input for each hour' containing a 4x6 grid of input boxes for hours from 1:00 to 0:00. At the bottom, there is a 'Batch input' section with a 'Value' text box, 'All same' and 'Divide' buttons, a 'Copy date' dropdown menu showing '2012/6/14', and a 'Copy' button. To the right of this section is a 'Day total' text box. At the very bottom are 'OK' and 'Cancel' buttons.

Item	Details
Name	Select the virtual measuring point for entry to which the data is entered.
Data	Select the date to which the data is entered. The selectable range is: “current date – storage period” to “current date + 31 days” (Storage period = storage month of the daily logging file × 31 days) Example) If the storage month of the daily logging file is 24 months and the current day is June 10, 2009: May 28, 2007 – July 11, 2009
Input for each hour	Enter one hour data of 01:00 – 23:00 and 00:00 Entry range: 0 to 999,999.99 (up to 2 digits after decimal point)
Batch input -Value	Enter the value when performing the batch or equalized entry. Entry range: Batch 0 to 999,999.99 (up to 2 digits after decimal point) Equalized 0 to 23,999,999.76 (up to 2 digits after decimal point)
Batch input -Copy date	Select the date of the copy source when copying the data of other dates.
Day total	Displays the total of the data entered for each time. However, if you enter the data for the date displayed in the monthly data entry, that data is displayed as a total.

01:00 indicates the data from 00:00 to 01:00; 02:00 indicates the data from 01:00 to 02:00, ... , and 00:00 indicates the data from 23:00 to 00:00.

If you enter the monthly data after entering the daily data, the data entered for monthly is given priority in registration of the daily total.

If the daily data is then entered again, the daily total will be given priority.

(3) The following procedure is used to enter the data collectively.

[1] Batch entry

Enter a figure in the "Value" field and click on the [All same] button. The entered figure will be pasted on each of 01:00 – 23:00 and 00:00.

- * Caution is required as any data already entered will be overwritten.
- * If the "Value" field is blank, the data for each of 01:00 – 23:00 and 00:00 will also become blank.

[2] Equalized entry

Enter a figure in the "Value" field and click on the [Divide] button. The figure obtained by dividing the entered figure by 24 will be pasted on each of 01:00 – 23:00 and 00:00.

- * Caution is required as any data already entered will be overwritten.
- * When dividing the figure by 24, the data after the 3rd decimal point is discarded.
Example 1) Equalized entry of 2400 → 100 is pasted on each of 01:00 – 23:00 and 00:00
($2400 \div 24 = 100$)
Example 2) Equalized entry of 2500 → 104.16 is pasted on each of 01:00 – 23:00 and 00:00
($2500 \div 24 = 104.166\dots$)
- * If the result of discarding the data after the 3rd decimal point is 0.00, 0 is pasted.

[3] Copy entry

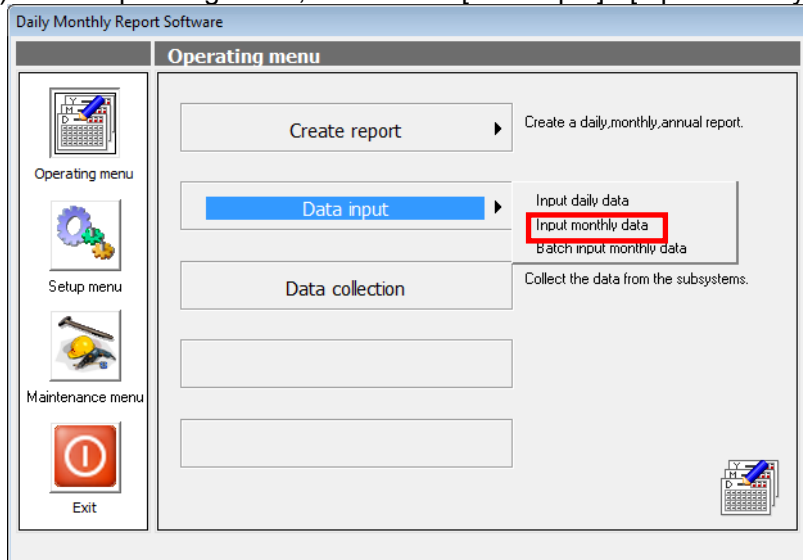
Select the "Copy date" and click on the [Copy] button. The data of the specified date is copied.

- * Caution is required as any data already entered will be overwritten.
- * The data of a date which has not been entered cannot be copied.

(4) When the data entry is completed, click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

6.1.3 Input monthly data

- (1) In the Operating menu, click on the [Data input] - [Input monthly data] menu.



- (2) The [Input monthly data] screen is displayed.
Select the Name and Date, and then enter the data.

The 'Input monthly data' screen contains the following elements:

- Name:** A dropdown menu showing 'Facilities 3'.
- Unit:** A text field containing 'Piece'.
- Date:** A date picker showing '2012/ 6'.
- Input each day:** A grid of input fields for each day of the month. The days are numbered 1 through 30. Some numbers are highlighted in blue (2, 9, 16, 23, 30) and others in red (3, 10, 17, 24). Each number has a corresponding input field below it.
- Batch input:** A section with a 'Value' field, 'All same' and 'Divide' buttons, a 'Copy from' date picker (showing '2012/ 5'), and a 'Copy' button.
- Month total:** A text field for the total value for the month.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom right.

Item	Details
Name	Select the virtual measuring point for entry to which the data is entered.
Date	Select the year and month to which the data is entered. The selectable range is: “current month – storage period” to “current month + 12 months” (Storage period = storage year of the monthly logging file × 12 months) Example) If the storage year of the monthly logging file is 3 years and the current month is June 2009: June 2006 – June 2010
Input each day	Enter the data from the first to the last day of the month. Entry range: 0 to 99,999,999.99 (up to 2 digits after decimal point) If the daily data is entered, it will be overwritten with the data of the daily total.
Batch input -Value	Enter the value for the batch or equalized entry. Entry range: Batch 0 to 99,999,999.99 (up to 2 digits after decimal point) Equalized 0 to 99,999,999.99 × number of days in month (up to 2 digits after decimal point)
Batch input -Copy from	Select the year and month of the copy source when copying the data of other years and months.

(3) To enter the data collectively, follow the procedure below.

[1] Batch entry

Enter a figure in the “Value” field and click on the [All same] button. The entered figure will be pasted on each day from the first to the last day of the month.

- * Caution is required as any data already entered will be overwritten.
- * If the “Value” field is blank, the data from the first to the last day of the month will also become blank.

[2] Equalized entry

Enter a figure in the “Value” field and click on the [Divide] button. The figure obtained by dividing the entered figure by the number of days in the month will be pasted on each day from the first to the last day of the month.

- * Caution is required as any data already entered will be overwritten.
- * When dividing the figure, the data after the 3rd decimal point is discarded.
- * If the result of discarding the data after the 3rd decimal point is 0.00, 0 is pasted.

[3] Copy entry

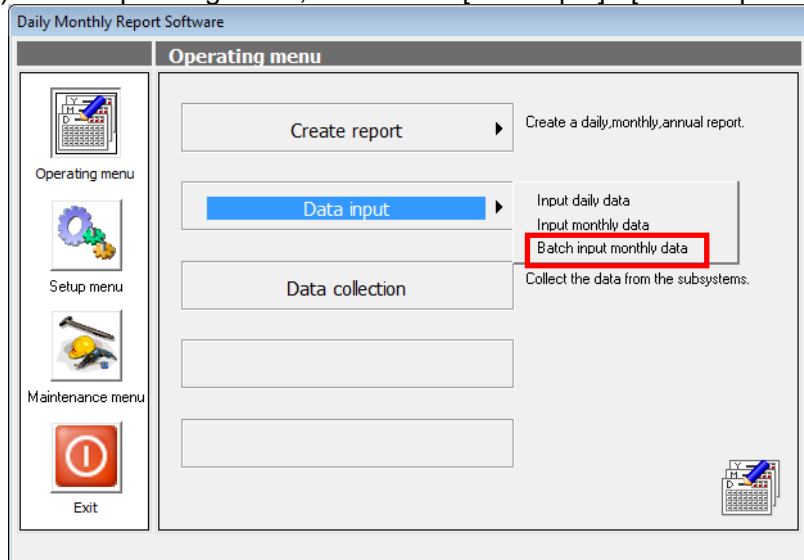
Select the “Copy date” and click on the [Copy] button. The data of the specified year and month is copied.

- * Caution is required as any data already entered will be overwritten.
- * The data of a year and month which has not been entered cannot be copied.

(4) When the data entry is completed, click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

6.1.4 Batch input monthly data

- (1) In the Operating menu, click on the [Data input] - [Batch input monthly data] menu.



- (2) The [Batch input monthly data] screen is displayed.
Select the date and then enter the data.

The screenshot shows the 'Batch input monthly data' screen. At the top, there's a 'Date' field with a dropdown arrow, currently showing '2012/6/15' and '1/1' to its right. Below this is a section titled 'Input each measuring point' containing a table with 4 columns: 'ID', 'Measuring point name', 'Unit', and 'Value(Day total)'. The table has 10 rows. The first two rows are pre-filled: V3 Facilities 3 (Unit: Piece) and V4 Facilities 4 (Unit: Piece). The remaining 8 rows are empty. At the bottom of the screen, there's a 'Batch input' section with a 'Value' input field, 'All same', and 'Divide' buttons. To the right are '<Prev.' and 'Next>' buttons. At the very bottom are 'OK' and 'Cancel' buttons. A note at the bottom left says 'Please batch input by each screen.'

ID	Measuring point name	Unit	Value(Day total)
V3	Facilities 3	Piece	<input type="text"/>
V4	Facilities 4	Piece	<input type="text"/>
			<input type="text"/>
			<input type="text"/>
			<input type="text"/>
			<input type="text"/>
			<input type="text"/>
			<input type="text"/>
			<input type="text"/>
			<input type="text"/>

Item	Details
Date	Select the year and month to which the data is entered. The selectable range is: “current date – storage period” to “current date + 12 months” (Storage period = storage year of the monthly logging file × 12 months) Example) If the storage year of the monthly logging file is 3 years and the current date is June 10, 2009: June 10, 2006 – June 10, 2010
Value(Day total)	Enter the data for one day of each measuring point. Entry range: 0 to 99,999,999.99 (up to 2 digits after decimal point)
Batch input -Value	Enter the value for batch or equalized entry. Entry range: Batch 0 to 99,999,999.99 (up to 2 digits after decimal point) Equalized 0 to 99,999,999.99 × number of measuring points (up to 2 digits after decimal point)

In the specific consumption data list display, the figures after the decimal point are rounded off and the display is made in an integer.

(3) To enter the data collectively, follow the procedure below.

[1] Batch entry

Enter a figure in the “Value” field and click on the [All same] button. The entered figure will be pasted on each measuring point.

- * Caution is required as any data already entered will be overwritten.
- * If the “Value” field is blank, the data for each measuring point will also become blank.

[2] Equalized entry

Enter a figure in the “Value” field and click on the [Divide] button. The figure obtained by dividing the entered figure by the number of the measuring points will be pasted on each measuring point.

- * Caution is required as any data already entered will be overwritten.
- * When dividing the figure, the data after the 3rd decimal point is discarded.
- * If the result of discarding the data after the 3rd decimal point is 0.00, 0 is pasted.

(4) When the data entry is completed, click on the [OK] button. The confirmation message will be displayed. Follow the message instructions and continue the operation.

CHAPTER 7 REPORT CREATION

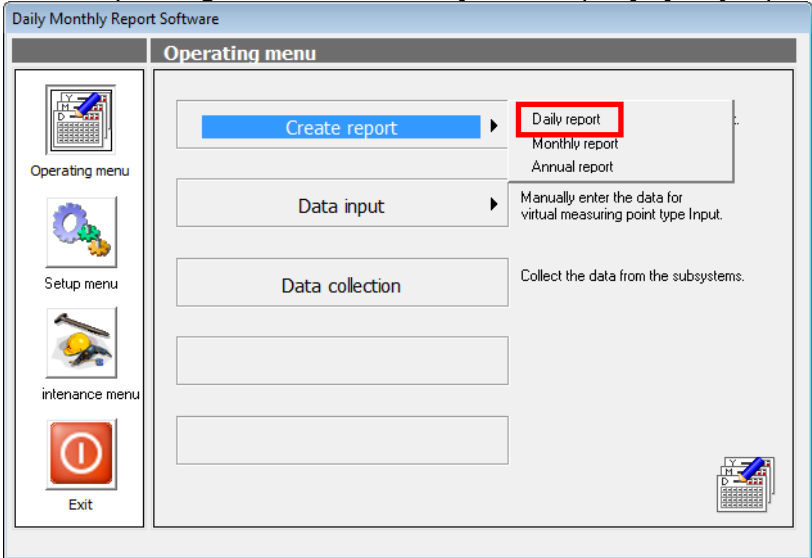
This chapter explains the method for creating report.
This item creates the report from the collected logging files.
If the logging file in the scope of the specified compiling date has not been collected yet, the data is collected from the subsystem.

- * See “5.1 Data collection” for the information on the data collection processing.
- * See “4.4 Report setting” for the information on the report setting.

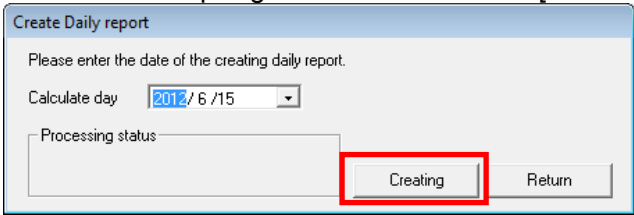
7.1 Daily Report

This item creates a daily report from the daily logging file of the specified date.

(1) In the Operating menu, click on the [Create report] - [Daily report] menu.

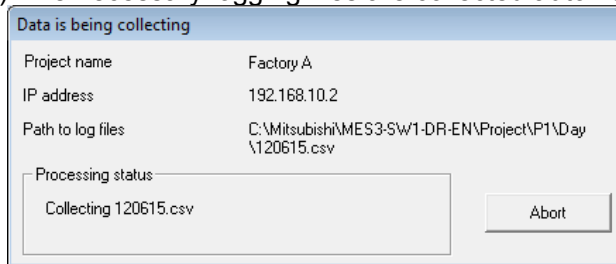


(2) The [Create Daily report] screen is displayed.
Select the compiling date and click on the [Creating] button.



Item	Details
Calculate day	Select (or enter directly) the date for the daily report to be created. The date of the future cannot be selected.

(3) The necessary logging files are collected automatically.

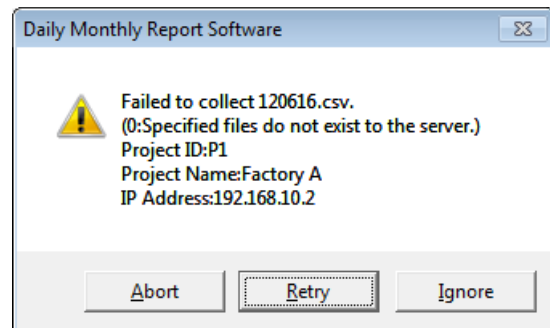


Caution

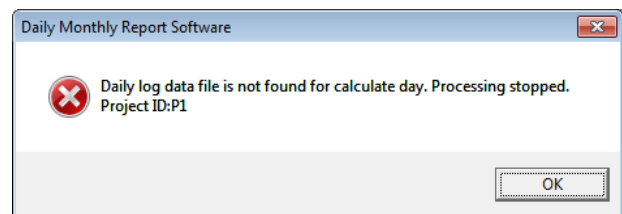
This processing may take several minutes. Do not perform any operation other than cancel while this message is being displayed.
Depending on the operating system being used, the application may end abnormally.

- * If there is no file of the specified date in the subsystem, the message as shown on the right will be displayed for each file.

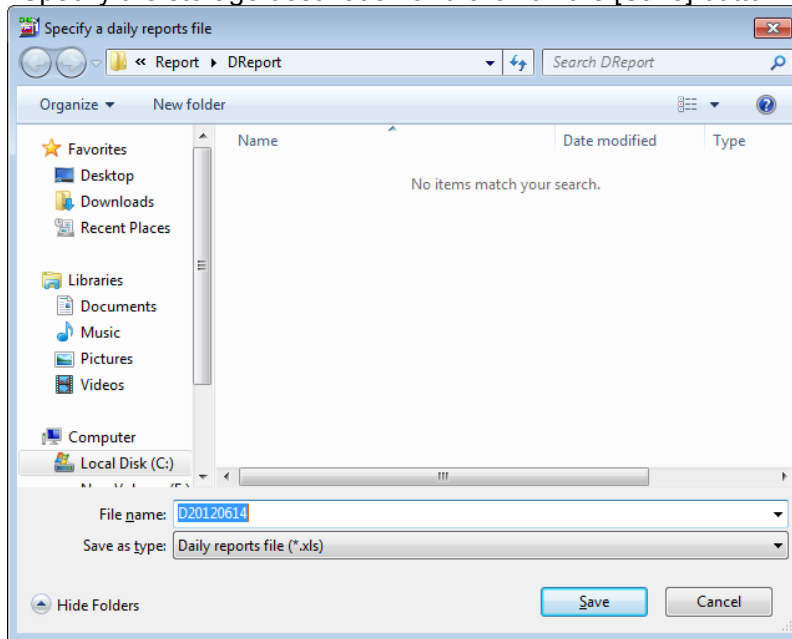
If you know that the data does not exist in the subsystem, for example, because the power was cut off, click on the [Ignore] button and continue the data collection.



- * If the data for the specified date has not been collected, the message as shown on the right will be displayed. Select again the year, month, and day of which the data was created in the subsystem.

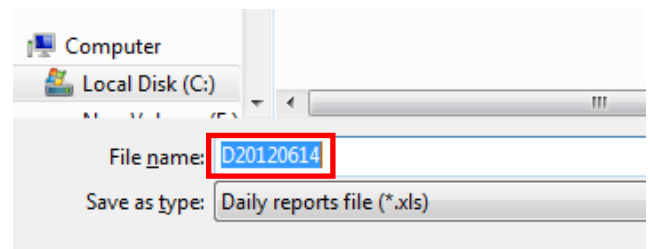


- (4) The [Specify a daily reports file] dialog is displayed.
Specify the storage destination and click on the [Save] button.



The default file name is "Dyyyyymmdd.xls." (yyyyymmdd is the compiling date.)
See "4.5 (1) Save path" for the default storage destination path.

- * **Do not change the file name.**
If the file name is changed, no extension (.xls) may be added to the saved file, and the file becomes unable to be opened. To change the name of the file, first save the file using this operation and then make the change in Explorer, etc.
If the check mark is removed for "Hide extensions for known file types" in Explorer, an extension is added to the file name and displayed as shown on the right.
Do not delete this extension (.xls).



(5) The daily report is displayed in Excel format.

[Output example]

Daily Report 1												Creator	Reporter	Checker
2012/6/20 (Wed)												ABC		
Time	Product				Other									
	Product Line	Printer	Rest Room	Shop										
	kWh	kWh	kWh	kWh										
1:00	13.0	0.0	0.0	995.9										
2:00	10.0	0.0	0.0	999.9										
3:00	9.0	0.0	0.0	3.8										
4:00	7.0	0.0	0.0	999.4										
5:00	7.0	0.0	0.0	0.7										
6:00	8.0	0.0	0.0	995.4										
7:00	8.0	0.0	0.0	4.7										
8:00	10.0	0.0	0.0	997.0										
9:00	37.0	3.0	11.0	4.8										
10:00	96.0	1.0	2.0	997.3										
11:00	94.0	0.0	99.0	3.4										
12:00	90.0	6.0	89.0	995.8										
13:00	51.0	11.0	35.0	0.7										
14:00	82.0	0.0	3.0	1.8										
15:00	95.0	3.0	6.0	0.7										
16:00	134.0	18.0	57.0	0.2										
17:00	132.0	5.0	18.0	1.1										
18:00	118.0	5.0	18.0	996.3										
19:00	108.0	81.0	939.0	1.6										
20:00	91.0	2.0	9.0	999.1										
21:00	88.0	3.0	7.0	998.0										
22:00	72.0	80.0	937.0	1.6										
23:00	32.0	99.0	95.0	998.9										
0:00	23.0	0.0	0.0	0.0										
Day Total	1415.0	317.0	2325.0	10998.1										
Maximum	134.0	99.0	939.0	999.9										
Minimum	7.0	0.0	0.0	0.0										
Average	59.0	13.2	96.9	458.3										

Calculate date

Title

Group name

Output item name

Unit

Measured value

Day total

Day maximum

Day minimum

Day average

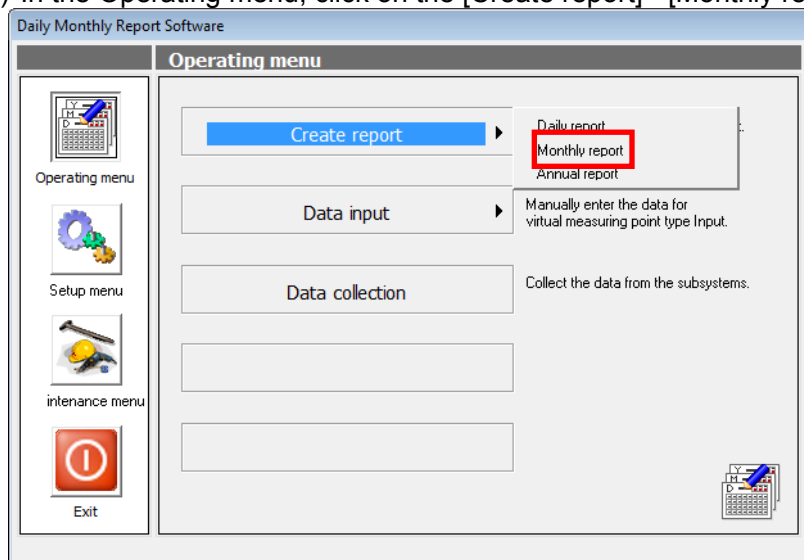
Item	Details
Title	Outputs the page title.
Calculate date	Outputs the date and day of the week of the daily report. Format: "yyyy/mm/dd(day)"
Group name	Outputs the group name of the output item.
Output item name	Outputs the name of the output item.
Unit	Outputs the unit of the output item.
Measured value	Outputs the measured value (or the calculated value) in hourly unit. If there is no data of the specified time, this item becomes blank. Analog/power factor: Instantaneous value Pulse: Differential value per hour Status: ON=1/OFF=0 Virtual measuring point: Calculated from the above measuring point
Day total	Outputs the total value of the measured values that have been output. A "-" (hyphen) is output for analog, power factor, specific consumption, and status. For the virtual measuring point, the output settings are followed. This item becomes blank if no measuring point has been output.
Day maximum	Outputs the maximum value of the measured values that have been output. For the power factor, the measured value which gives the largest absolute value is output. A "-" (hyphen) is output for the status. This item becomes blank if no measuring point has been output.
Day minimum	Outputs the minimum value of the measured values that have been output. For the power factor, the measured value which gives the smallest absolute value is output. A "-" (hyphen) is output for the status. This item becomes blank if no measuring point has been output.
Day average	Outputs the average value of the measured values that have been output. A "-" (hyphen) is output for the power factor. A "-" (hyphen) is output for the status. This item becomes blank if no measuring point has been output.

7.2 Monthly Report

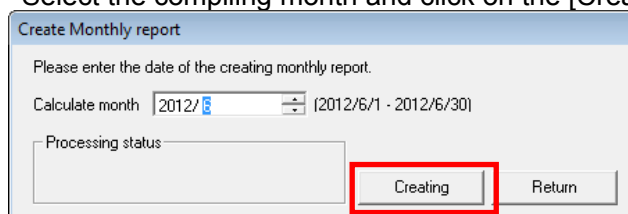
This item creates a monthly report from the daily logging file of the specified year and month.

- * If the output item is virtual measuring point for entry and the daily data is not entered, the monthly report is created based on the entered monthly data.
- * When the monthly report is created, a monthly report CSV file is created and saved to the monthly report CSV file storage destination specified for each subsystem.
The monthly report CSV files are deleted in order from the files that have exceeded their storage period.

(1) In the Operating menu, click on the [Create report] - [Monthly report] menu.

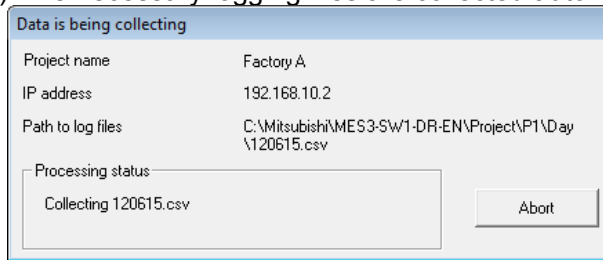


(2) The [Create Monthly report] screen is displayed.
Select the compiling month and click on the [Creating] button.



Item	Details
Calculate month	Select (or enter directly) the year and month for the monthly report to be created. The year and month of the future cannot be selected.

(3) The necessary logging files are collected automatically.

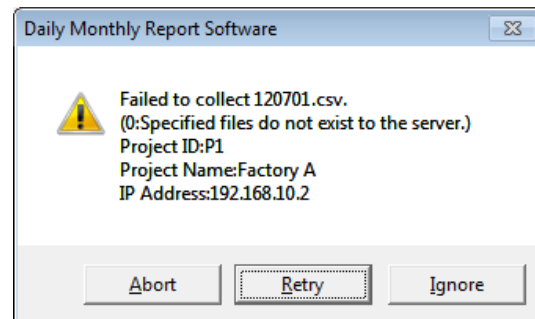


Caution

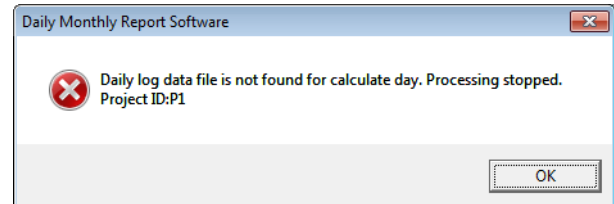
This processing may take several minutes. Do not perform any operation other than cancel while this message is being displayed.
Depending on the operating system being used, the application may end abnormally.

- * If there is no file of the specified date in the subsystem, the message as shown on the right will be displayed for each file.

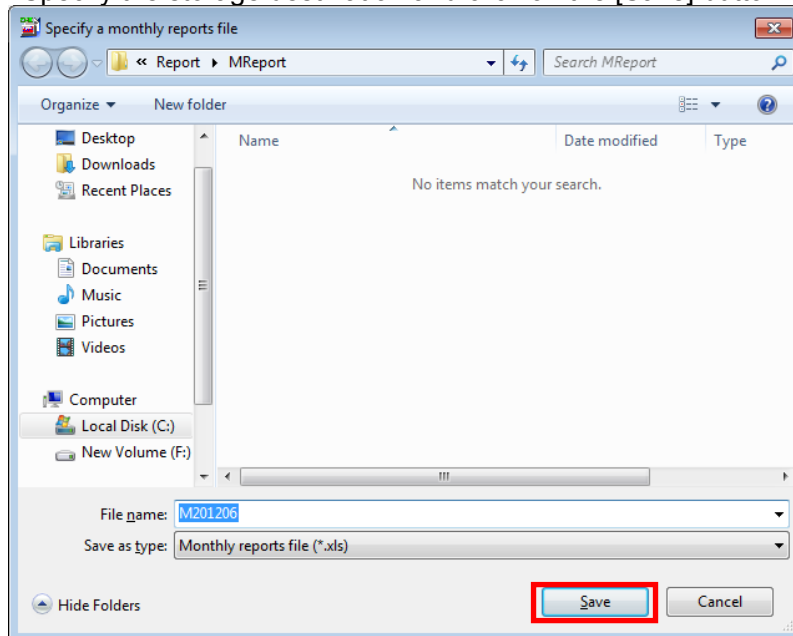
If you know that the data does not exist in the subsystem, for example, because the power was cut off, click on the [Ignore] button and continue the data collection.



- * If the data for the specified date has not been collected, the message as shown on the right will be displayed. Select again the year, month of which the data was created in the subsystem.

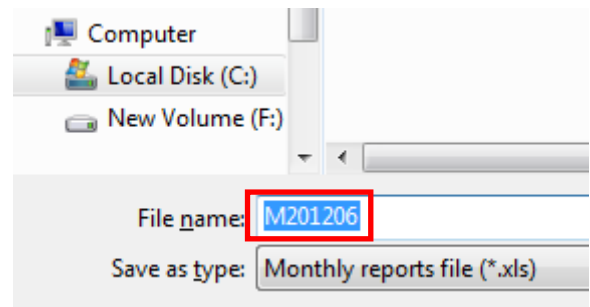


- (4) The [Specify a monthly reports file] dialog is displayed.
Specify the storage destination and click on the [Save] button.



The default file name is "Myyyyymm.xls." (yyyyymm is the Calculate date.)
See "4.5 (1) Save path" for the default storage destination path.

- * **Do not change the file name.**
If the file name is changed, no extension (.xls) may be added to the saved file, and the file becomes unable to be opened. To change the name of the file, first save the file using this operation and then make the change in Explorer, etc.
- If the check mark is removed for "Hide extensions for known file types" in Explorer, an extension is added to the file name and displayed as shown on the right.
- Do not delete this extension (.xls).



(5) The monthly report is displayed in Excel format.

[Output example]

Calculate month												Title		
Monthly Report 1												Creator	Reporter	Checker
2012/6												ABC		
Date	Electric													
	Energy total													
	V													
1	6538.8													
2	6559.6													
3	6564.6													
4	6528.8													
5	6515.0													
6	6546.3													
7	6512.9													
8	6548.3													
9	6562.1													
10	6554.6													
11	6522.9													
12	6523.3													
13	6530.4													
14	6523.8													
15	6522.1													
16	6566.4													
17	6546.4													
18	6525.4													
19	6536.7													
20	6523.1													
21	6522.9													
22	6523.3													
23	6530.4													
24	6523.8													
25	6522.1													
26	6566.4													
27	6546.4													
28	6522.1													
29	6566.4													
30	6546.4													
Month Total	-													
Maximum	6566.4													
Minimum	6512.9													
Average	6537.5													

Group name

Output item name

Unit

Measured value

Month total

Month maximum

Month minimum

Month average

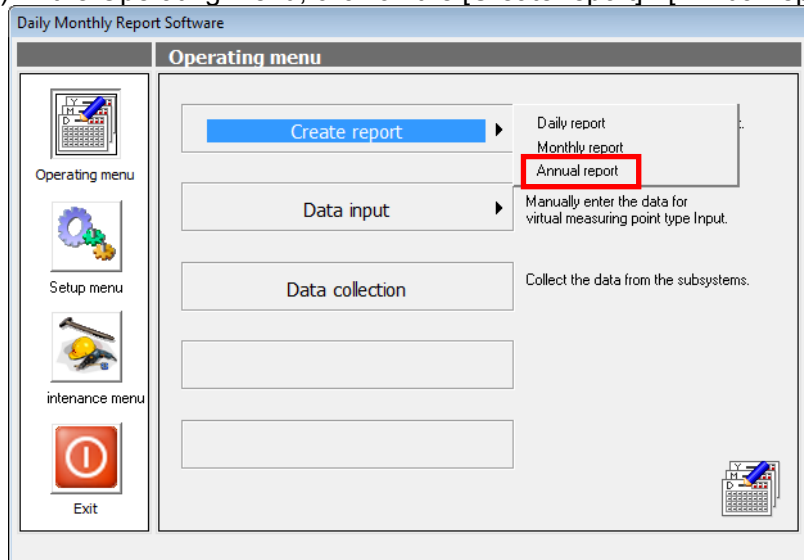
Item	Details
Title	Outputs the page title.
Calculate month	Outputs the month of the monthly report. Format: "yyyy/mm"
Group name	Outputs the group name of the output item.
Output item name	Outputs the name of the output item.
Unit	Outputs the unit of the output item.
Measured value	Outputs the measured value (or the calculated value) in daily unit. A "-" (hyphen) is output for the status. If there is no data of the specified time, this item becomes blank. <div> Analog: Any of the daily average, daily maximum, or daily minimum Pulse: Differential value per day Power factor: Either of the daily maximum or daily minimum Virtual measuring point: Calculated from the above measuring point </div>
Month total	Outputs the total value of the measured values that have been output. A "-" (hyphen) is output when this item is not output or when the analog, power factor, specific consumption, or status is set. For the virtual measuring point, the output settings are followed. This item becomes blank if no measuring point has been output.
Month maximum	Outputs the maximum value of the measured values that have been output. For the power factor, the measured value which gives the largest absolute value is output. This item becomes blank if no measuring point is output or if the status is set.
Month minimum	Outputs the minimum value of the measured values that have been output. For the power factor, the measured value which gives the smallest absolute value is output. This item becomes blank if no measuring point is output or if the status is set.
Month average	Outputs the average value for the measured values which have been output. A "-" (hyphen) is output for the power factor. This item becomes blank if no measuring point is output or if the status is set.

7.3 Annual Report

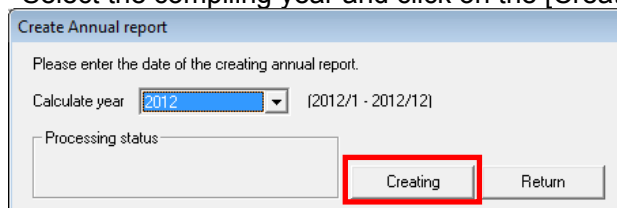
This item creates an annual report from the monthly CSV file of the specified year.

- * The month of which the monthly report has not been created is not output to the annual report.

(1) In the Operating menu, click on the [Create report] - [Annual report] menu.



(2) The [Create Annual report] screen is displayed.
Select the compiling year and click on the [Creating] button.

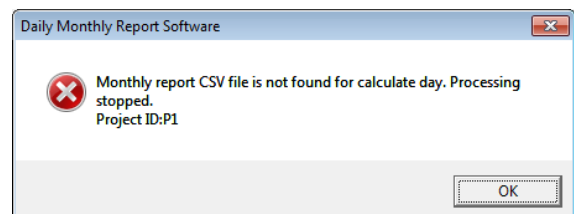


Item	Details
Calculate year	Select (or enter directly) the year for the annual report to be created.

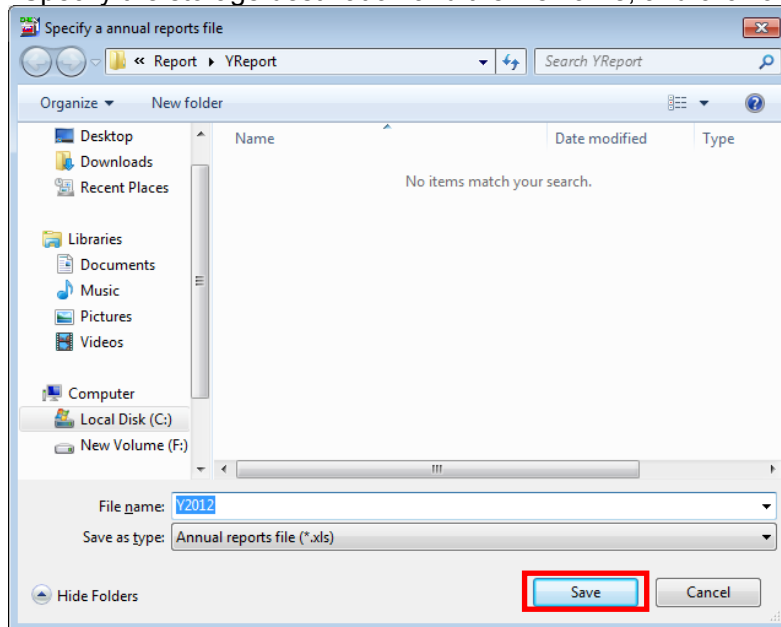
Caution

**This processing may take several minutes. Do not perform any operation other than cancel while this message is being displayed.
Depending on the operating system being used, the application may end abnormally.**

- * If there is no monthly report CSV file of the specified year and month, the message as shown on the right will be displayed. Create the monthly report corresponding to the year for making the annual report, and then perform the procedure again.

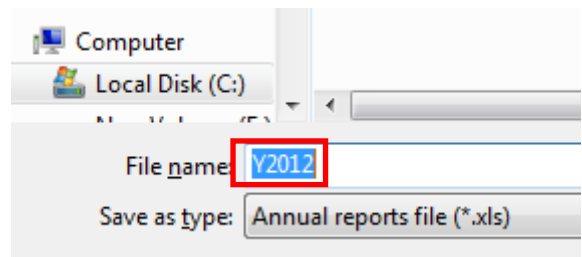


- (3) The [Specify a annual reports file] dialog is displayed.
Specify the storage destination and the file name, and click on the [Save] button.



The default file name is "Yyyyy.xls." (yyyy is the calculate year.)
See "4.5 (1) Save path" for the default storage destination path.

- * **Do not change the file name.**
If the file name is changed, no extension (.xls) may be added to the saved file, and the file becomes unable to be opened. To change the name of the file, first save the file using this operation and then make the change in Explorer, etc.
If the check mark is removed for "Hide extensions for known file types" in Explorer, an extension is added to the file name and displayed as shown on the right.
Do not delete this extension (.xls).



(4) The annual report is displayed in Excel format.

[Output example]

2012												ABC			Annual Rport 1			Calculate year			Title		
Month	Electric																	Creator	Reporter	Checker	Group name		
	Energy total																					Output item name	
	V																						Unit
1	6559.6																				Measured value		
2	6564.6																						
3	6528.8																						
4	6515.0																						
5	6546.3																						
6	6559.6																						
7	6564.6																						
8	6528.8																						
9	6515.0																						
10	6546.3																						
11	6512.9																						
12	6548.3																						
Year total	-																				Year total Year maximum Year minimum Year average		
Maximum	6564.6																						
Minimum	6512.9																						
Average	6540.8																						

Item	Details								
Title	Outputs the page title.								
Calculate year	Outputs the year of the annual report. Format: "yyyy"								
Group name	Outputs the group name of the output item.								
Output item name	Outputs the name of the output item.								
Unit	Outputs the unit of the output item.								
Measured value	<p>Outputs the measured value (or the calculated value) in monthly unit. A "-" (hyphen) is output for the status. If there is no data of the specified month or if the status is set, this item becomes blank.</p> <table> <tr> <td>Analog:</td><td>Any of the monthly average, monthly maximum, or monthly minimum</td></tr> <tr> <td>Pulse:</td><td>Monthly total per month</td></tr> <tr> <td>Power factor:</td><td>Either of the monthly maximum or minimum</td></tr> <tr> <td>Virtual measuring point:</td><td>Calculated from the above measuring point</td></tr> </table>	Analog:	Any of the monthly average, monthly maximum, or monthly minimum	Pulse:	Monthly total per month	Power factor:	Either of the monthly maximum or minimum	Virtual measuring point:	Calculated from the above measuring point
Analog:	Any of the monthly average, monthly maximum, or monthly minimum								
Pulse:	Monthly total per month								
Power factor:	Either of the monthly maximum or minimum								
Virtual measuring point:	Calculated from the above measuring point								
Year total	<p>Outputs the total value of the measured values that have been output. A "-" (hyphen) is output when this item is not output or when the analog, power factor, specific consumption, or status is set. For the virtual measuring point, the output settings are followed. This item becomes blank if no measuring point has been output.</p>								
Year maximum	<p>Outputs the maximum value of the measured values that have been output. For the power factor, the measured value which gives the largest absolute value is output. This item becomes blank if no measuring point is output or if the status is set.</p>								
Year minimum	<p>Outputs the minimum value of the measured values that have been output. For the power factor, the measured value which gives the smallest absolute value is output. This item becomes blank if no measuring point is output or if the status is set.</p>								
Year average	<p>Outputs the average value of the measured values which have been output. A "-" (hyphen) is output for the power factor. This item becomes blank if no measuring point is output or if the status is set.</p>								

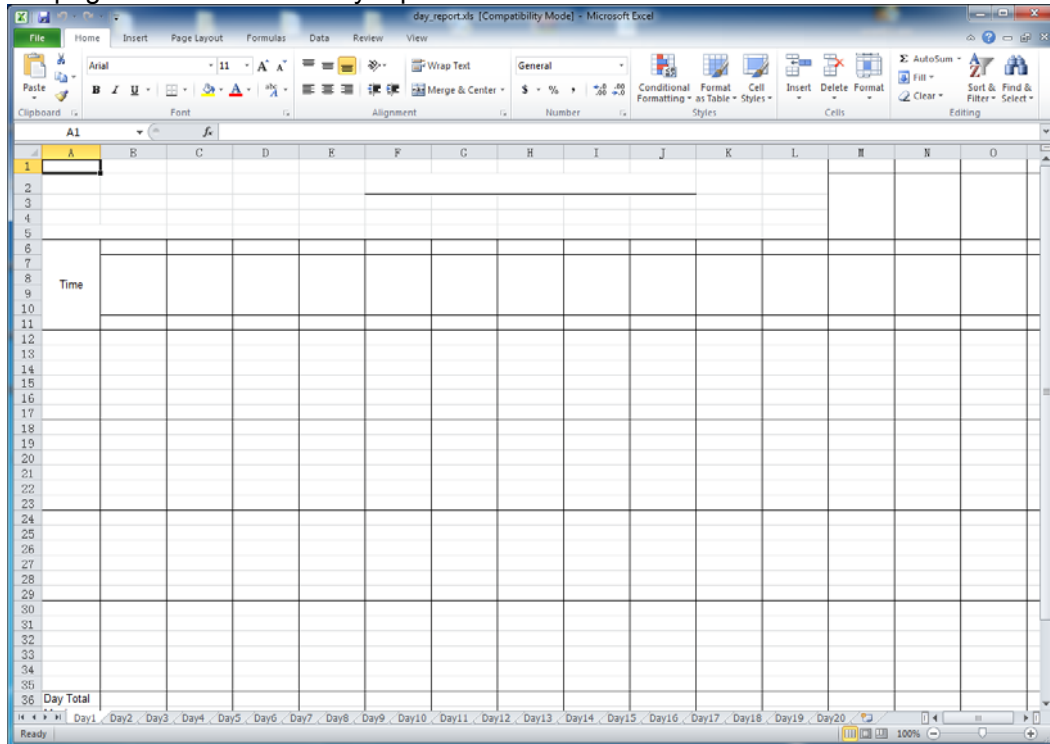
7.4 Customizing the report

The daily, monthly, and annual reports are created based on the master file in Excel book format. You can customize each report by adding your original sheet to the master file.

The master file for each report is stored in the “C:\Mitsubishi\MES3-SW1-DR-EN\Master\” folder (when this software is installed at the default installation destination).

The master file includes the master sheet for pasting the data.

For example, in “day_report.xls,” there are master sheets from “Day1” to “Day20” which correspond to the pages 1 to 20 of the daily report.



The following table shows the master file name and master sheet name of each report.

Report	Master file name	Master sheet name
Daily report	day_report.xls	Day1 – Day20
Monthly report	month_report.xls	Month1 – Month20
Annual report	year_report.xls	Year1 – Year20

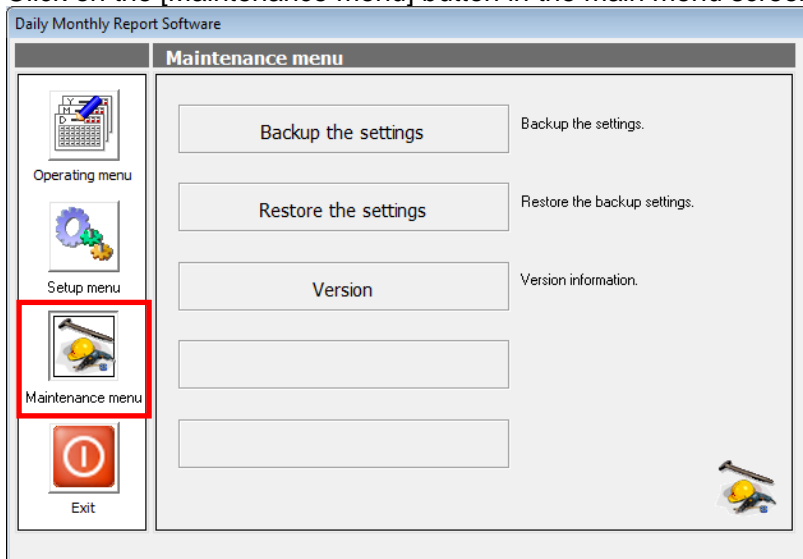
To add an original sheet, insert a sheet at any position using Excel.

Note the following:

- * Do not delete the master sheet or change the sheet name.
- * Do not change the sheet name or contents of the master sheet.
- * When using Excel 2007 or 2010, do not change the file type (Excel 97-2003 book (*.xls)).

CHAPTER 8 MAINTENANCE FUNCTION

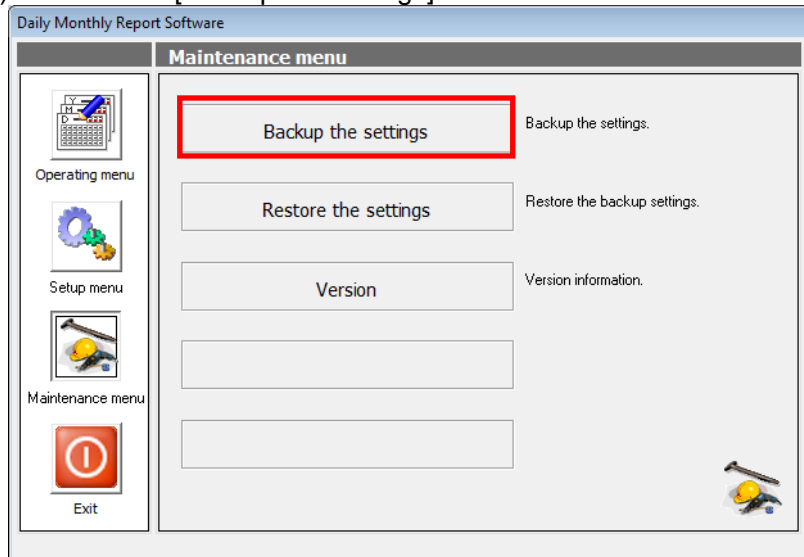
This chapter explains the maintenance of the setting data created with this software.
Click on the [Maintenance menu] button in the main menu screen to enter the maintenance mode.



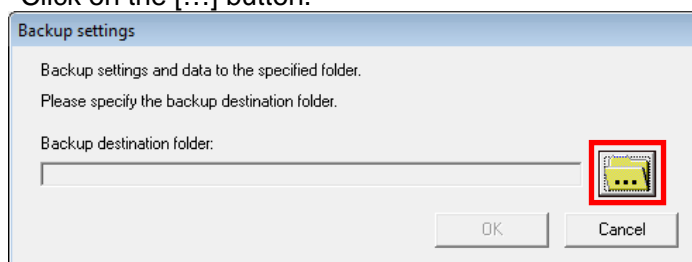
8.1 Making backup of the setting

This item backs up the created setting value.
Before making backup, close the created report.

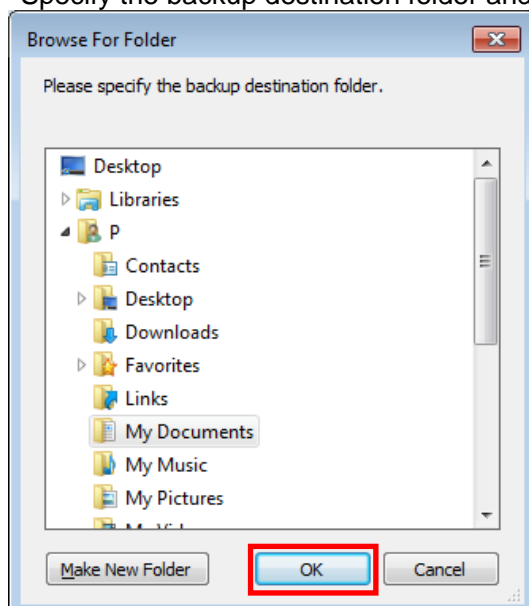
- (1) Click on the [Backup the settings] menu in the Maintenance menu.



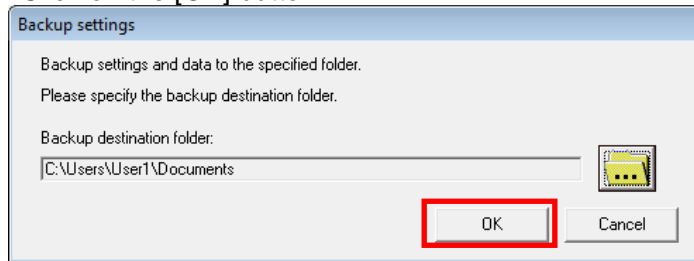
- (2) The [Backup settings] screen is displayed.
Click on the [...] button.



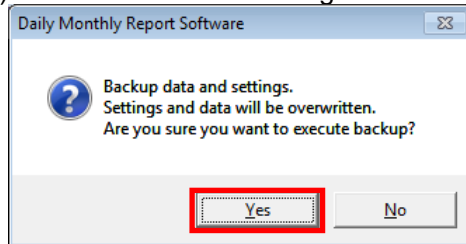
- (3) The [Browse For Folder] dialog is displayed.
Specify the backup destination folder and then click on the [OK] button.



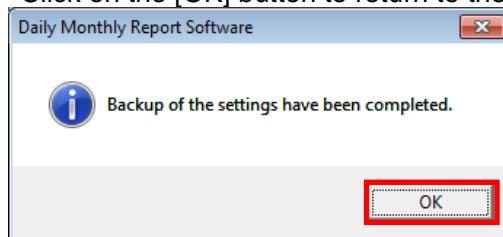
- (4) The specified folder is shown in the [Backup settings] screen.
Click on the [OK] button.



- (5) The confirmation message will be displayed. Click on the [Yes] button.



- (6) When the backup is completed, the message shown below will be displayed.
Click on the [OK] button to return to the maintenance menu.



8.2 Restoring the setting

This item restores the backup setting.

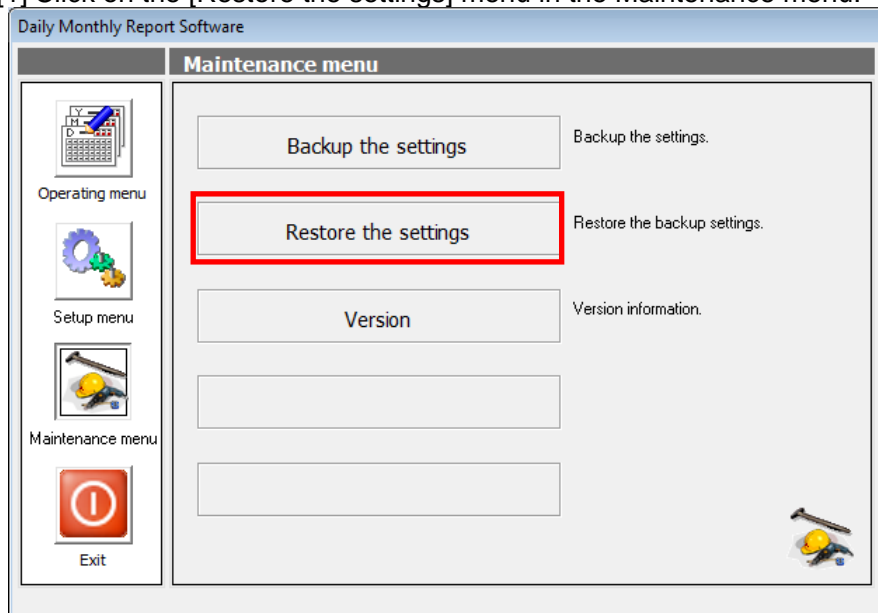
You can restore the setting value also from the older versions.

Before restoring the setting, close the created report.

Data to be restored	<ul style="list-style-type: none"> • Subsystem setting • Virtual measuring point setting • Specific consumption setting • Report setting • System setting • Backup data collected from the subsystem • The data from the storage destination path which was set in the system setting (Daily reports, monthly reports, annual reports files)*¹ • Master sheet
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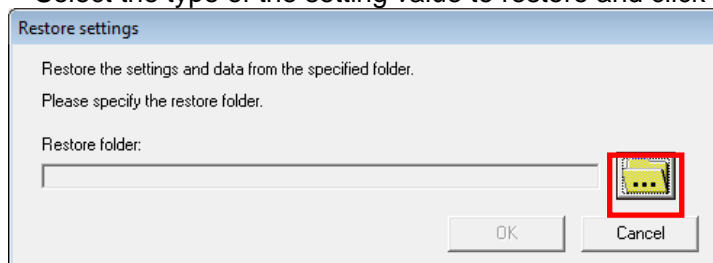
*1: Data is restored to the storage destination path which was set in the system setting at the time of the backup. To check the folder that has been restored, see the storage destination path in the system setting.

[1] Click on the [Restore the settings] menu in the Maintenance menu.

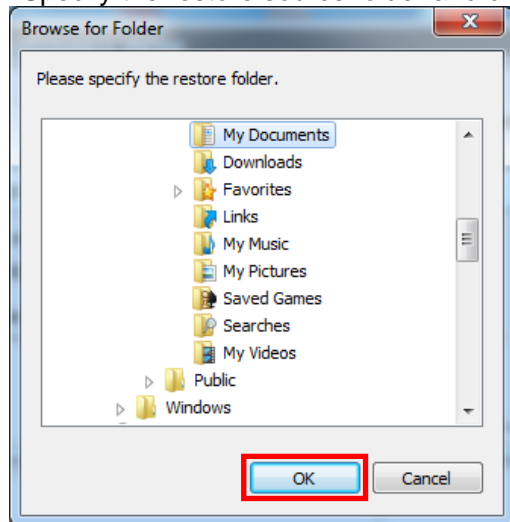


[2] The [Restore settings] screen is displayed.

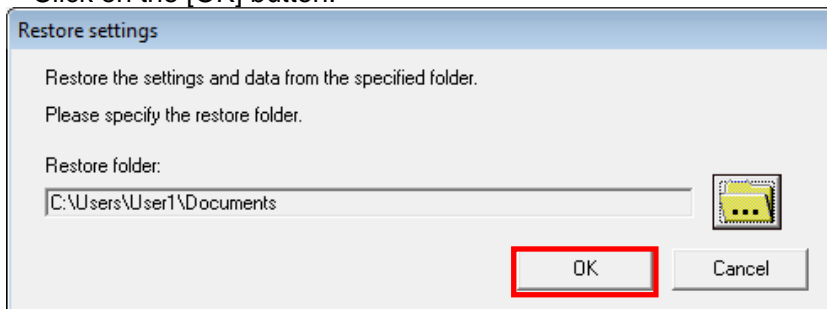
Select the type of the setting value to restore and click on the [...] button.



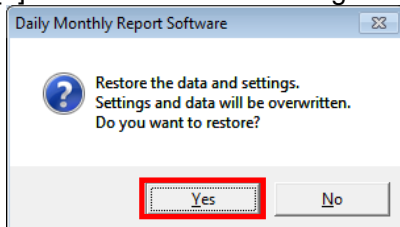
- [3] The [Browse for Folder] dialog is displayed.
Specify the restore source folder and click on the [OK] button.



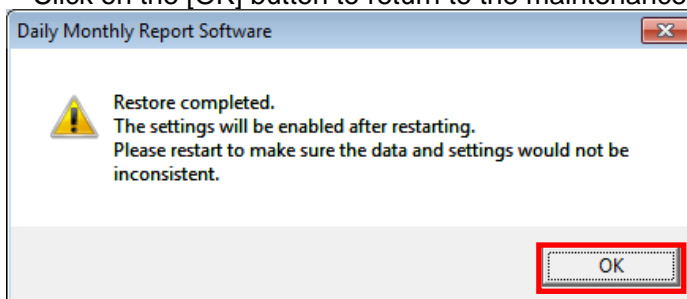
- [4] The specified folder is shown in the [Restore settings] screen.
Click on the [OK] button.



- [5] The confirmation message will be displayed. Click on the [Yes] button.



- [6] When the restore is completed, the message shown below will be displayed.
Click on the [OK] button to return to the maintenance menu.

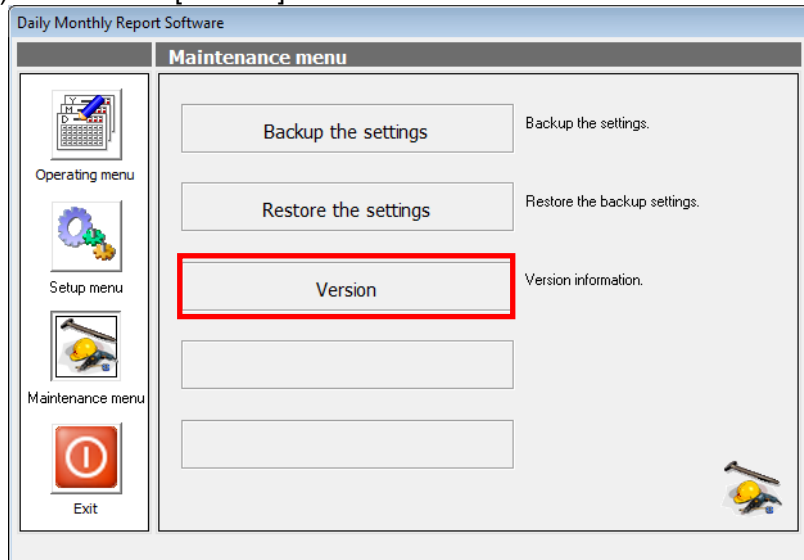


- [7] Close the software and then restart it again.

8.3 Version

This item checks the version of this software.

- (1) Click on the [Version] menu in the Maintenance menu.



- (2) The [Version] screen is displayed.
Check the version information and then click on the [OK] button to close the screen.



CHAPTER 9 APPENDICES

Troubleshooting

The following explains the method for dealing with any abnormalities or problems that may arise when using this software.

If any abnormalities occur or messages are displayed during the operation of the OS or any other applications, refer to the manuals supplied with the respective applications.

Item	Error message/symptom	Point to check
Setting	Can not connect to the subsystem.	Check that the power of the subsystem is turned on.
		Check that the LAN cable is connected correctly.
		Check that the IP address is set correctly.
		Check that the network setting of the computer is set correctly.
		Check that the communications are not being blocked by a firewall, antivirus software, or similar programs.
	Can not update because the measuring point P*K*** in the following places is already removed.	Check that the measuring point which corresponds to the registered measuring point ID in the project has not been deleted from the measuring point of the relevant subsystem.
	The contents of the measuring point information settings file is invalid.	Check that the specified configuration file of the measuring point information is correct.
	Measuring point of the project can not be deleted because it is used in the following places.	Check that no measuring point included in the project to be deleted is used in the virtual measuring point, specific consumption, or report, etc.
	Virtual measuring point can not be deleted because it is being used in the following places.	Check that the virtual measuring point to be deleted is not used in the virtual measuring point group, specific consumption, or report, etc.
	Virtual measuring point group can not be deleted because it is being used in the following places.	Check that the virtual measuring point group to be deleted is not used in the specific consumption or report, etc.
	Specific consumption measuring point can not be deleted because it is being used in the following places.	Check that the specific consumption to be deleted is not used in the report.
	Arithmetic expression is invalid.	Check that an invalid arithmetic expression (such as an inconsistency in parentheses and division by 0) has not been entered.

Item	Error message/symptom	Point to check
Data collection	Can not connect to the subsystem.	Check that the power of the subsystem is turned on.
		Check that the LAN cable is connected correctly.
		Check that the IP address is set correctly.
		Check that the network setting of the computer is set correctly.
		Check that the communications are not being blocked by a firewall, antivirus software, or similar programs.
		Check whether the measuring point list has been registered in the project registration in the subsystem setting. If it is not registered, update the measuring point information.
	Collecting - Communication Error (**** indicates a file name.)	Check that the LAN cable is connected.
	Failed to collect (**** indicates a file name.)	Check that the power of the subsystem is turned on.
		Check whether the relevant logging file exists in the main body of the subsystem. Refer to the user manual of the subsystem for the checking procedure.
Report creation	Daily log data file is not found for calculate day. Processing stopped.	Check whether the relevant daily logging file exists in the main body of the subsystem. Refer to the user manual of the subsystem for the checking procedure.
		Check whether the relevant daily logging file exists at the storage destination path. Refer to "4.5 (1) Save path" for information on the storage destination path.
		Collect the data and then create the report again.
	Can not continue because Excel is not installed.	Check whether Excel is installed on the computer being used.
Data storage	Not enough free disk space.	Check the free space of the disk at the storage destination.
	Can not find the path specified.	Check whether the storage destination path is correct. Refer to "4.5 (1) Save path" for information on the storage destination path.
	Failed to create a CSV file.	Check that the relevant CSV file to be overwritten is not opened.
	Failed to save the report. Processing stopped.	Check that the Excel file of the relevant report to be overwritten is not opened.

Item	Error message/symptom	Point to check
Hardware key	Error 1009: Cannot open HASP HL drivers	The device driver for the hardware key has not been installed. Refer to “2.2.2 Installing the device driver for the hardware key” and install the device driver.
		If the hardware key is displayed correctly in the Device Manager, repeat the installation of the device driver again.
	Error 7: HASP HL Key not found.	The hardware key is not connected. Connect the hardware key.
Others	System can not boot because of an error in the following places. Connection: File 'C:\Mitsubishi\MES3-SW1-DR-EN\bumdr.mdb' could not be opened. Another user has opened it exclusively or you have no authority to read the data.	Check the user's authority. If the user does not have an administrator authority, log in as a user having an administrator authority to use the software.
	System can not boot because of an error in the following places.	Set the system clock on the computer to the date after April 1, 2004.
	For date is abnormal, the system can not boot.	Change the Windows firewall settings in the operating system to allow communications with the “Daily Monthly Report Software.”

Daily Monthly Report Software

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